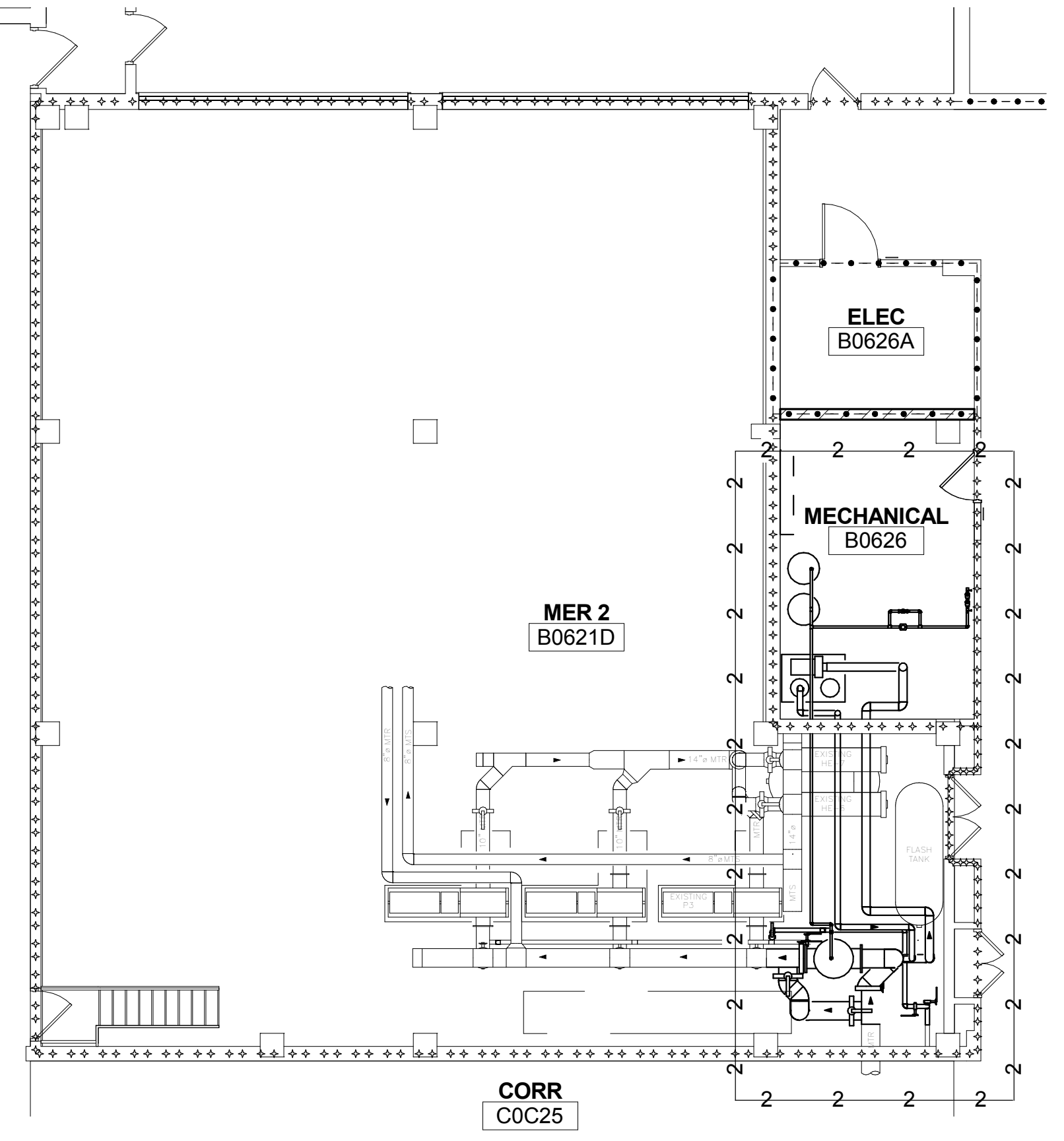
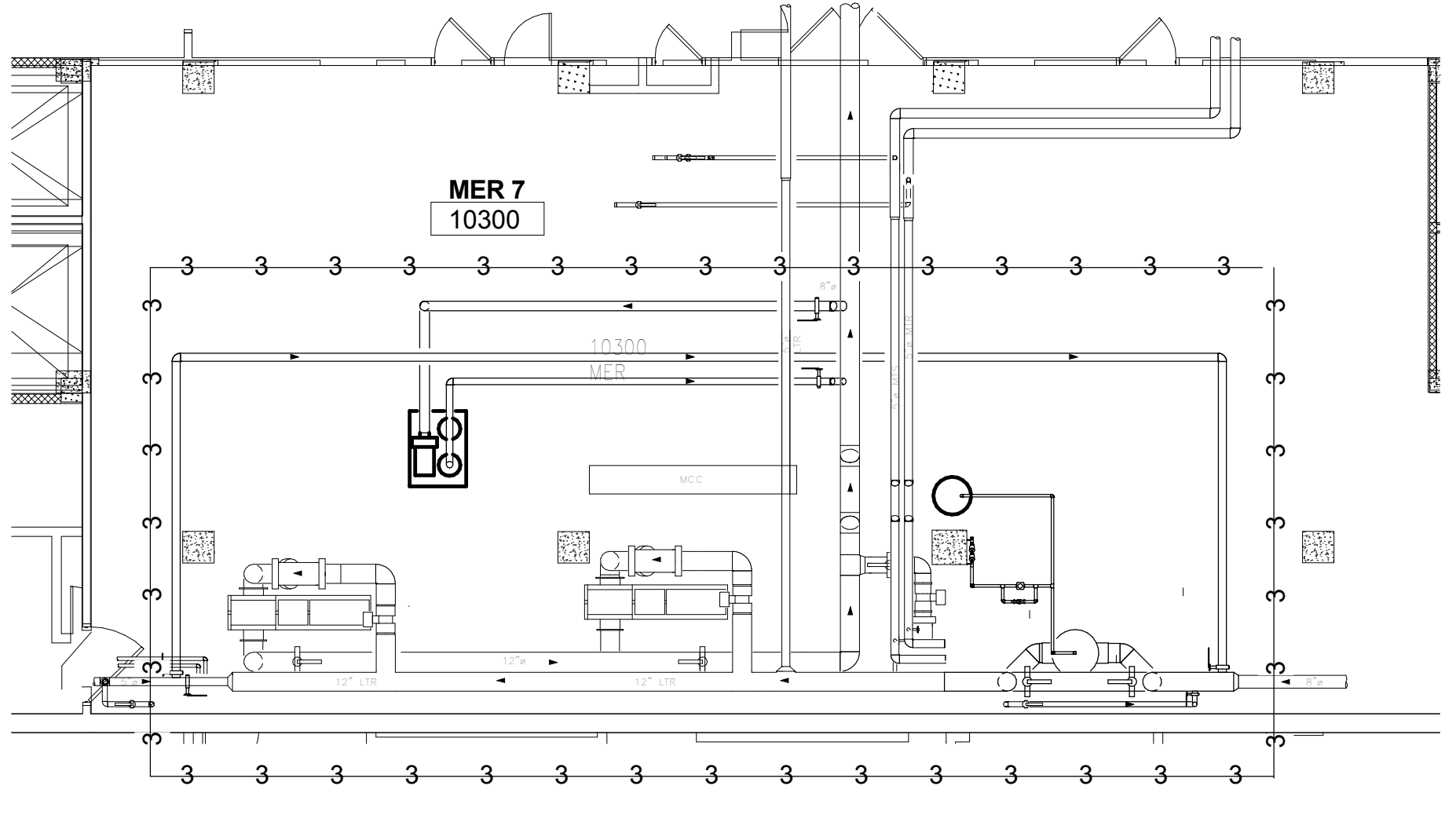


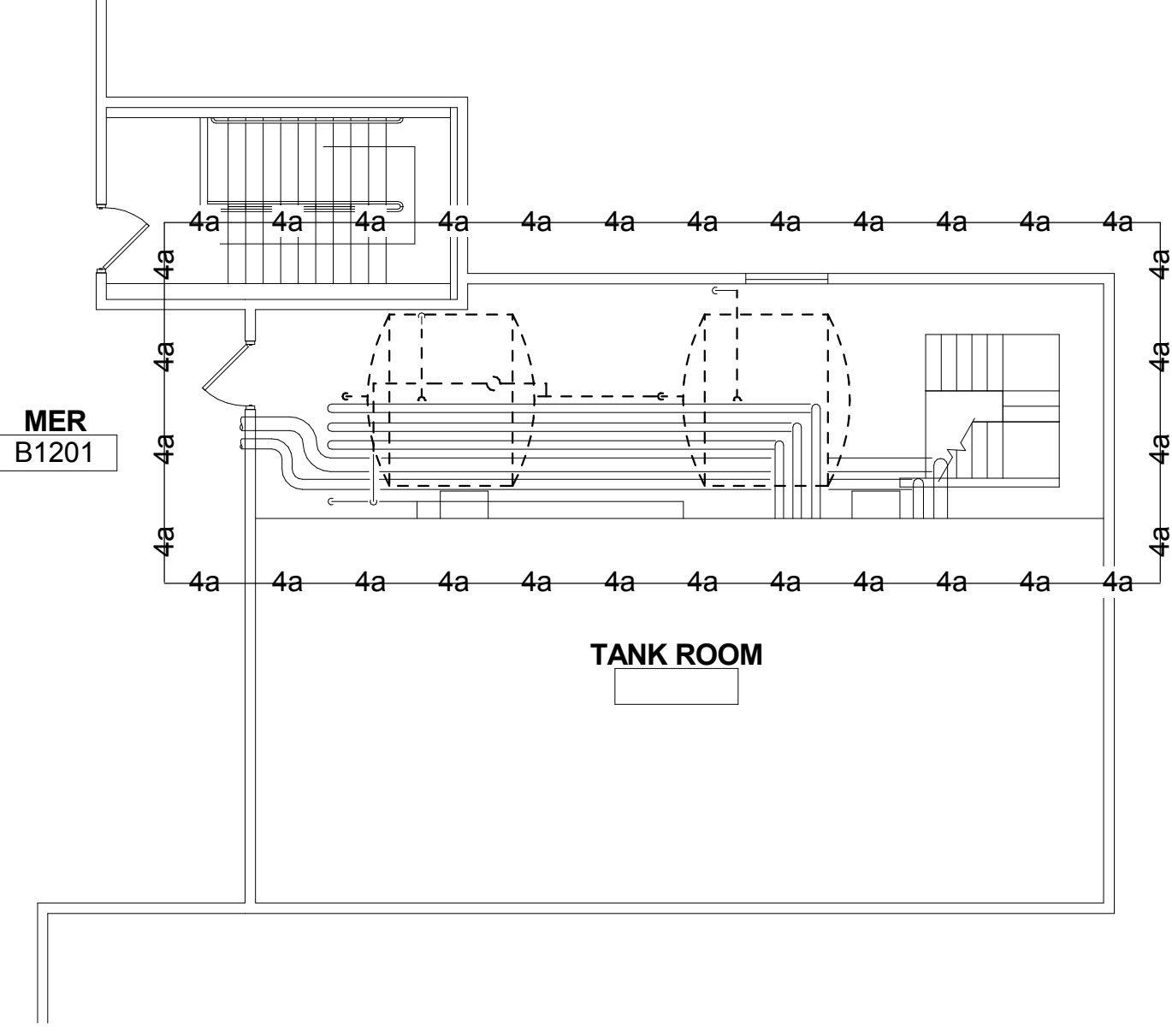
North
PHASE 1 - ELECTRICAL ROOM
Scale 1/8" = 1'-0"



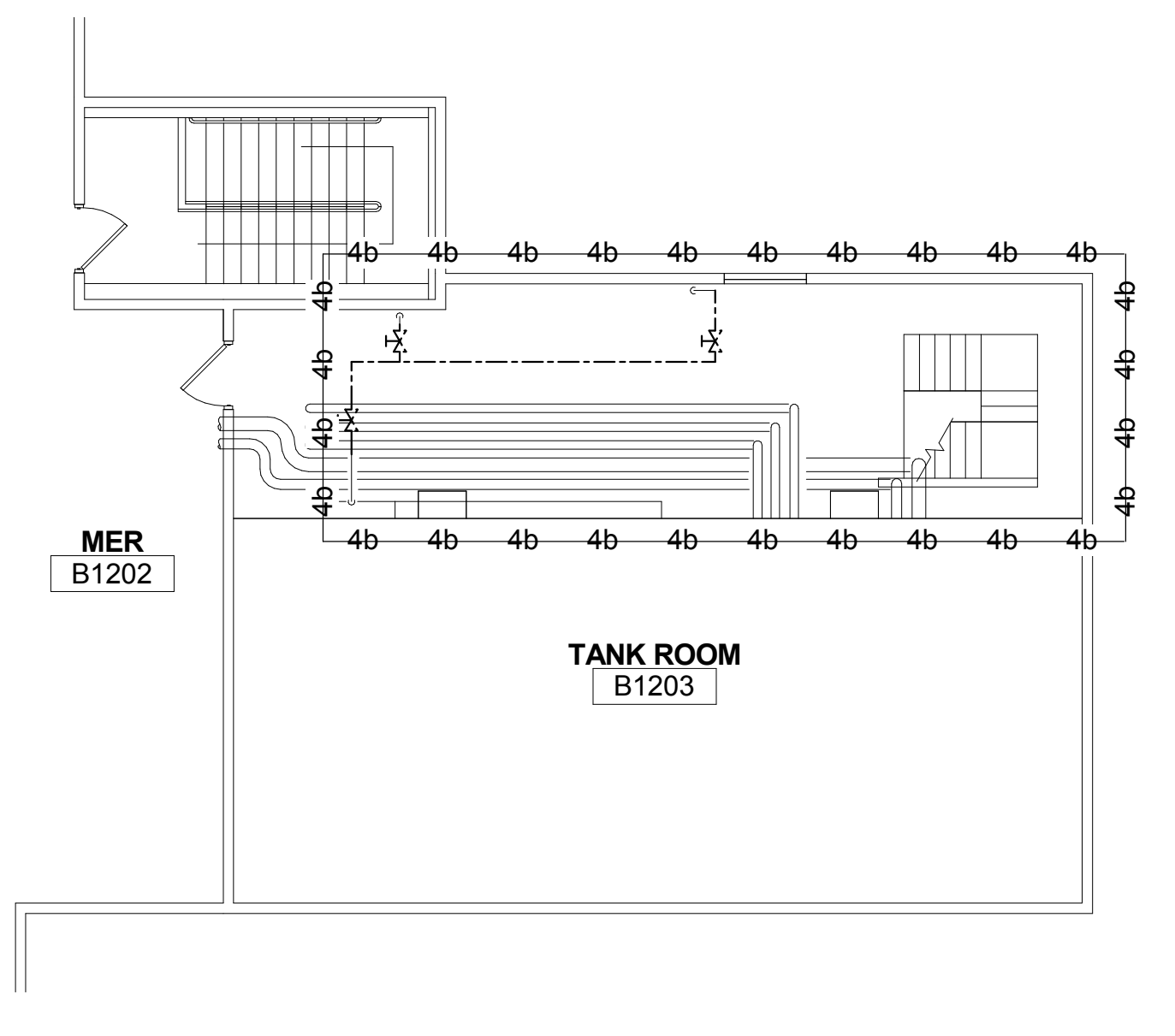
North
PHASE 2 - MER 2
Scale 1/8" = 1'-0"



North
PHASE 3 - MER 7
Scale 1/8" = 1'-0"



North
PHASE 4 - 10TH FLOOR DEMO
Scale 1/8" = 1'-0"



North
PHASE 4 - 10TH FLOOR NEW
Scale 1/8" = 1'-0"

PHASING PLAN SYMBOLS

- 1 — INDICATES PHASE - SEE PHASING NOTES
- - - - - ONE HOUR FIRE RESISTIVE WALL ASSEMBLY
- ***** SMOKE RESISTIVE WALL ASSEMBLY
- ● ● CONSTRUCTION LIMITS

PHASING PLAN GENERAL NOTES

- THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 01 01 10 SN - SPECIAL NOTES.
- ALL OUTAGES SHALL BE SCHEDULED FOR **OFF-HOURS** (PREMIUM TIME).
- WORK ON HEATING SYSTEMS SHALL TAKE PLACE DURING THE NON-HEATING SEASON TO REDUCE DISRUPTIONS OF HOSPITAL OPERATIONS.
- HOT WORK** - SEE SPECIFICATION SECTIONS 01 01 10 SN - SPECIAL NOTES AND 01 35 26 - SAFETY REQUIREMENTS FOR ALL HOT WORK.
- PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
- HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR.
- WORK HOURS:**
DAYTIME - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE / CRANES.

PHASING NOTES

- PHASE 1**
- INSTALL THE NEW SEPARATION WALL WITHIN ROOM B0626.
 - REMOVE LIGHTING AND RECEPTACLES AS REQUIRED.
 - MODIFY SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED.
 - INSTALL NEW LIGHTING AND RECEPTACLES AS REQUIRED.
 - INSTALL NEW FLOOR DRAIN
- PHASE 2 – MER2**
- INSTALL HOT TAPS ON 14" MTR PIPING FOR NEW BYPASS PIPING AS INDICATED ON SHEET MD100, MD400, M100, AND M400. (APPROX. 4-6 HRS). INSTALL BYPASS PIPING AND ENSURE SYSTEM IS STILL PROPERLY OPERATIONAL BEFORE PROCEEDING TO ANY ADDITIONAL WORK. ONCE IT IS DETERMINED BY THE A/E AND VA THAT THE SYSTEM IS OPERATING PROPERLY THROUGH THE NEW BYPASS PIPING, PRECEED WITH DEMOLITION OF THE REMAINING PIPING AS INDICATED ON SHEETS MD100 AND MD400.
 - INSTALL THE NEW AIR SEPARATOR AS-1, EXPANSION TANKS ET-1 AND ET-2, SIDE STREAM FILTRATION SSF-1, AND THE AUTOMATIC WATER TREATMENT SYSTEM. THIS INCLUDES ASSOCIATED PIPING, VALVES, AND ACCESSORIES.
 - ALLOW 14 DAYS FOR TESTING AND ACCEPTANCE OF SYSTEM IN ADDITION TO THE FILTRATION PERIOD, SEE PHASE 5.
 - PROVIDE ELECTRICAL MOTOR CONNECTIONS TO EQUIPMENT AS REQUIRED.
 - MODIFY SPRINKLER HEADS AND OR PIPING AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT.
 - THE FILTRATION SYSTEM SHALL BE INTEGRATED INTO THE BUILDING AUTOMATION SYSTEM (BAS), SEE PHASE 5
 - THE SYSTEM SHALL BE COMMISSIONED, INCLUDING TESTING OF ALARMS, FLOW MEASUREMENT, COMMUNICATIONS, AND GRAPHICS INTEGRATION.
- PHASE 3 – MER7**
- INSTALL HOT TAPS ON 8" LTR PIPING FOR NEW BYPASS PIPING AS INDICATED ON SHEET MD101, MD401, M101, AND M401 (APPROX. 4-6 HRS). INSTALL BYPASS PIPING AND ENSURE SYSTEM IS STILL PROPERLY OPERATIONAL BEFORE PROCEEDING TO ANY ADDITIONAL WORK. ONCE IT IS DETERMINED BY THE A/E AND VA THAT THE SYSTEM IS OPERATING PROPERLY THROUGH THE NEW BYPASS PIPING, PRECEED WITH DEMOLITION OF THE REMAINING PIPING AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
 - INSTALL THE NEW AIR SEPARATOR AS-1, EXPANSION TANKS ET-3, SIDE STREAM FILTRATION SSF-2, AND THE AUTOMATIC WATER TREATMENT SYSTEM. THIS INCLUDES ASSOCIATED PIPING, VALVES, AND ACCESSORIES.
 - ALLOW 14 DAYS FOR TESTING AND ACCEPTANCE OF SYSTEM IN ADDITION TO THE FILTRATION PERIOD, SEE PHASE 5.
 - REROUTE EXISTING 5" LTR PIPING AS SHOWN ON DRAWING.
 - PROVIDE ELECTRICAL MOTOR CONNECTIONS TO EQUIPMENT AS REQUIRED.
 - MODIFY SPRINKLER HEADS AND OR PIPING AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT.
 - THE FILTRATION SYSTEM SHALL BE INTEGRATED INTO THE BUILDING AUTOMATION SYSTEM (BAS), SEE PHASE 5
 - THE SYSTEM SHALL BE COMMISSIONED, INCLUDING TESTING OF ALARMS, FLOW MEASUREMENT, COMMUNICATIONS, AND GRAPHICS INTEGRATION.
- PHASE 4 – DEMOLITION OF EXISTING EXPANSION TANKS**
- ONCE EACH FILTRATION SYSTEM IS OPERATIONAL, THE CONTRACTOR CAN PROCEED WITH ISOLATION AND DISCONNECTING THE EXISTING EXPANSION TANKS AND PIPING IN THE 13TH FLOOR PENTHOUSE PER SHEET MD102.
 - RECONNECT THE COLD WATER PIPING AFTER THE BACKFLOW PREVENTOR TO THE MTHW AND LTHW CONNECTION TO BE USED AS A FILL POINT FOR THOSE SYSTEMS.
- PHASE 5 – FILTRATION SYSTEM OPERATION PERIOD**
- ONCE EACH FILTRATION SYSTEM IS OPERATIONAL AND ALL CONSTRUCTION WORK TO THE PIPING SYSTEM IS COMPLETE, THE CONTRACTOR AND VA WILL MONITOR BOTH THE NEW FILTRATION SYSTEM AND THE EACH DISTRIBUTION SYSTEM FOR A MINIMUM OF 2 MONTH.
 - DURING THIS PERIOD THE FILTRATION SYSTEM AND WATER TREATMENT SYSTEM WILL NEED TO BE MAINTAINED AS DURING THIS PERIOD WILL BE THE HIGHEST LEVEL OF DEBRI COLLECTION.

BID SET

Revisions:	Date	 Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI		KEY PLAN ↑ 	CONSULTANTS:  	PROJECT LEADER/ARCHITECT: 	Drawing Title PHASING PLAN	Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration	Project Number 695-13-122 Building Number 111	100% SUBMITTAL 10/8/15	Office of Construction and Facilities Management  Department of Veterans Affairs
							Approved: Project Director	Location Milwaukee, Wisconsin	Drawing Number A001		

SUITE NUMBER	SUITE NAME	SUITE SIZE	TYPE OF SUITE	EXIT NUMBER
1	LINEAR ACCELERATOR SUITE	6,737 Sq. Ft.	NON SLEEPING PATIENT CARE	2

1. SEE SPECIFICATION SECTION 01 01 10 IC FOR INFECTION CONTROL REQUIREMENTS
2. SEE SPECIFICATION SECTION 01 01 10 1HR FOR INFECTION CONTROL BARRIERS
3. SEE GENERAL NOTES AND INFECTION CONTROL DRAWING FOR ADDITIONAL REQUIREMENTS

EQUIVALENCIES HAVE BEEN GRANTED FOR THE FOLLOWING:

- ## SYMBOLS LIST

-

BUSINESS 124,053s.f.
AMBULATORY 495,766s.f.
HAP 201,362s.f.

BID SET

[illegible]

SUITE DESCRIPTIONS

SUITE NUMBER	SUITE NAME	SUITE SIZE	TYPE OF SUITE	EXIT NUMBER
1	OFFICE SUITE - 10240	1,400 Sq. Ft.	NON PATIENT CARE	1

SOC GENERAL NOTES

- SEE SPECIFICATION SECTION 01 01 10 IC FOR INFECTION CONTROL REQUIREMENTS
- SEE SPECIFICATION SECTION 01 01 10 1HR FOR INFECTION CONTROL BARRIERS
- SEE GENERAL NOTES AND INFECTION CONTROL DRAWING FOR ADDITIONAL REQUIREMENTS

GENERAL DRAWING NOTES:

- EQUIVALENCIES HAVE BEEN GRANTED FOR THE FOLLOWING:
- SELF CLOSING DOOR HARDWARE IN DOMICILIARY OCCUPANCIES-DATED 1/09/98
 - INSTALLATION OF WIRELESS ACCESS POINT EQUIPMENT WITHIN EXIT STAIR ENCLOSURES-DATED 2/11/10

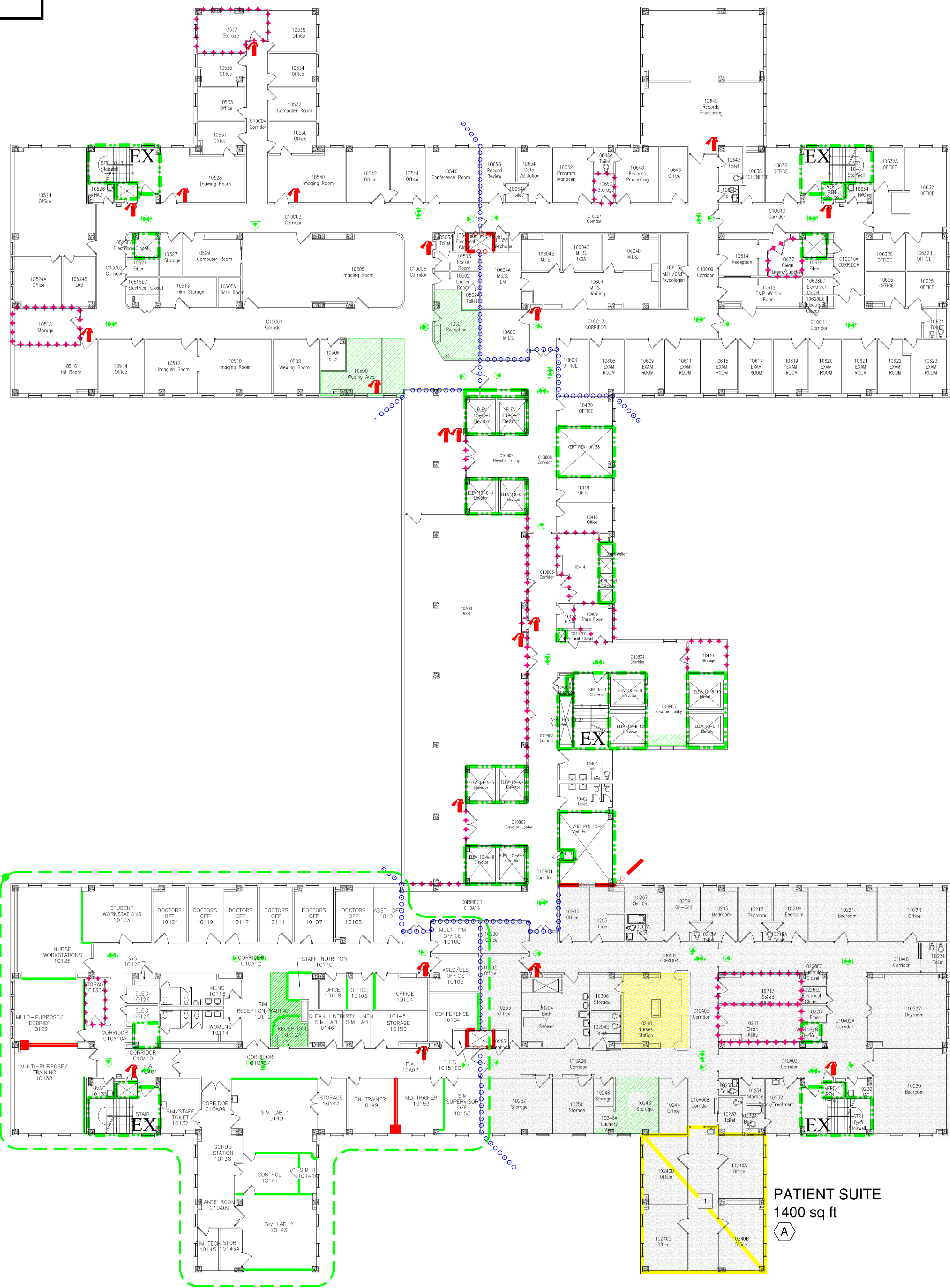
DRAWING KEY NOTES:

- A SEE EQUIVALENCY FOR OVERSIZED PATIENT SLEEPING SUITES.

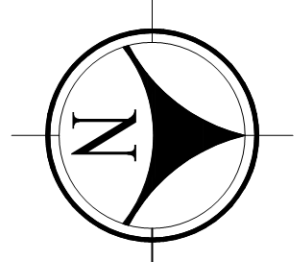
SYMBOLS LIST

- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE/SMOKE BARRIER
- 1 HOUR FIRE/SMOKE BARRIER
- 30 MINUTE SMOKE BARRIER
- SMOKE RESISTIVE HAZARDOUS AREA
- HORIZONTAL EXIT PASSAGEWAY
- EXIT
- EXIT PASSAGEWAY
- LINEN CHUTE
- TRASH CHUTE
- SUITE DESIGNATIONS
- AREA OPEN TO CORRIDOR - WITH SMOKE DETECTION
- AREA OPEN TO CORRIDOR - NO SMOKE DETECTION REQUIRED

UNDER CONSTRUCTION



HAP OCCUPANCY
10,425s.f.
AMBULATORY OCCUPANCY
31,895s.f.

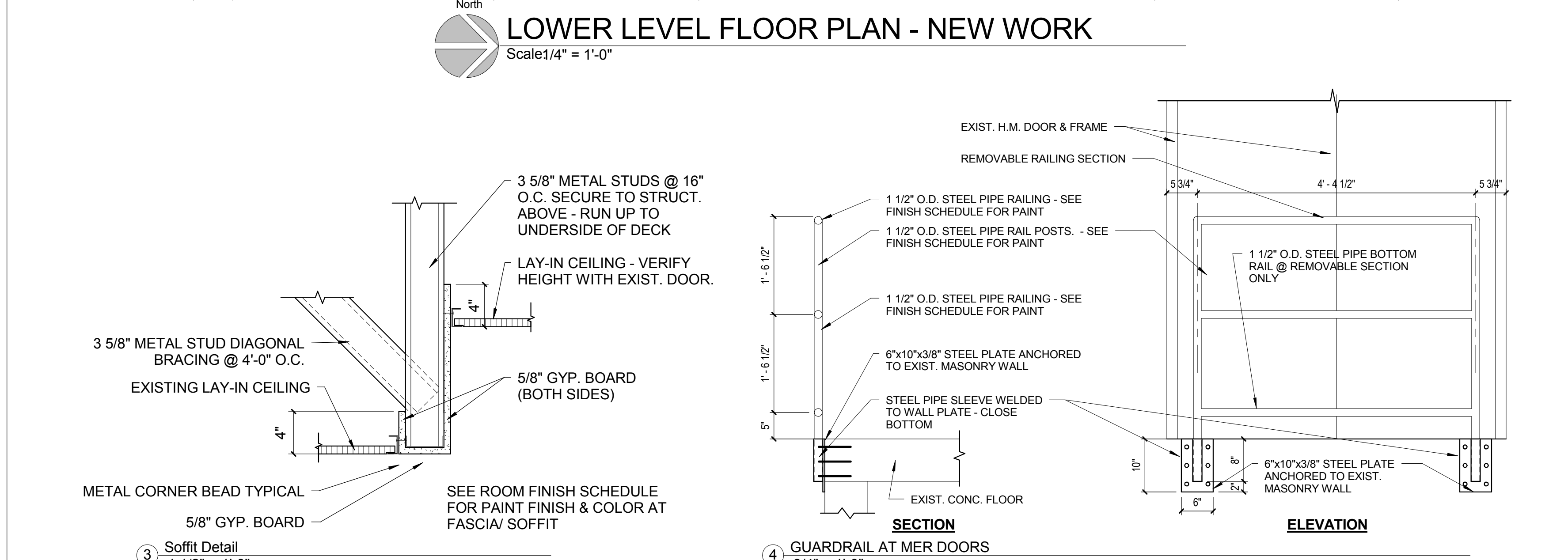
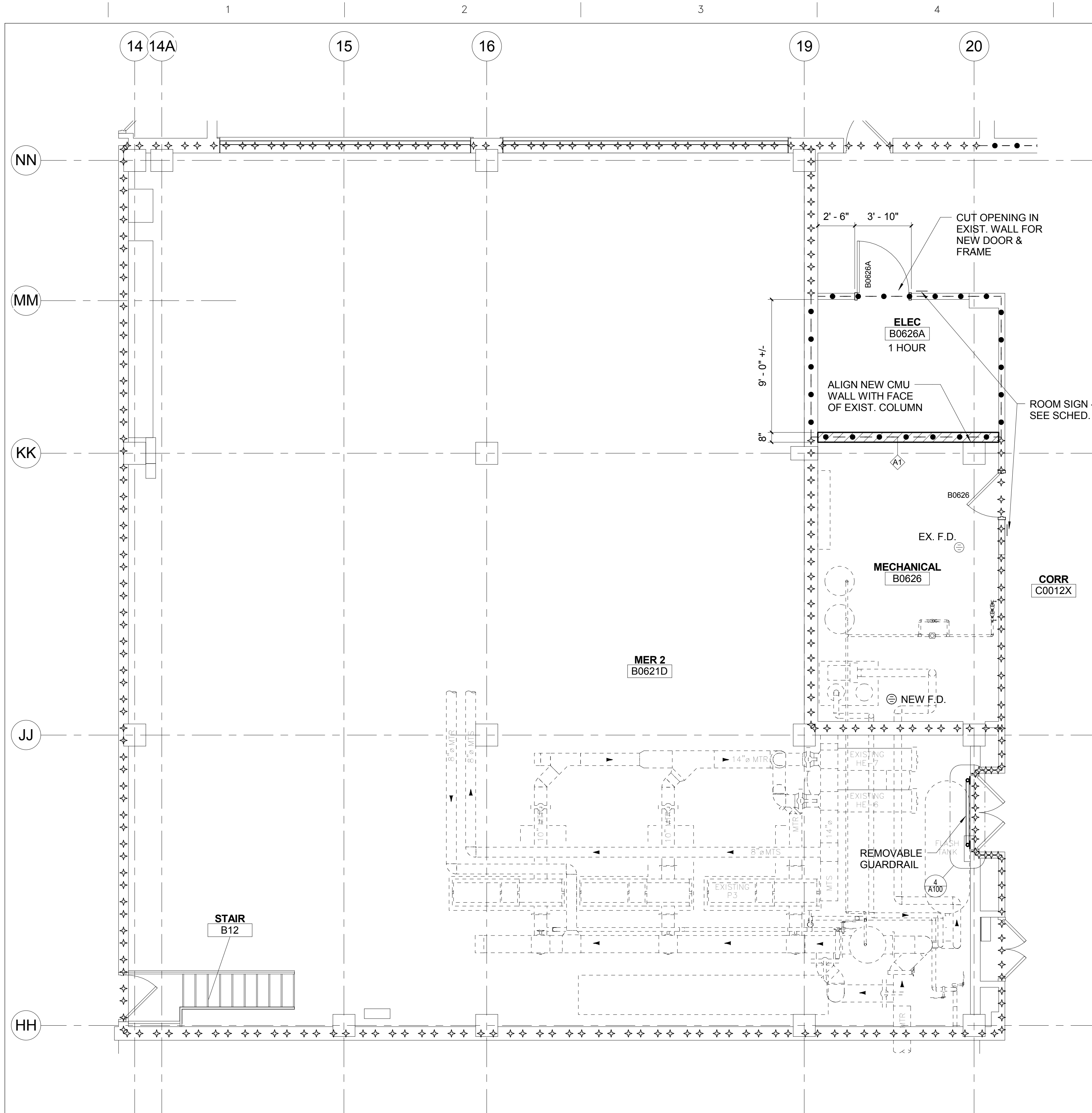


BUILDING 111 TENTH FLOOR
FULLY SPRINKLERED
HEALTH CARE OCCUPANCY

BID SET

Revisions:	Date	 Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI		KEY PLAN ↑ EXISTING BLDG. 111	CONSULTANTS:  	PROJECT LEADER/ARCHITECT:  ASHLAND, WI • MILWAUKEE, WI 7710 480-2004 414-238-8004 WWW.CHEQUAMEGON.COM	Drawing Title TENTH FLOOR SOC	Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration	100% SUBMITTAL 10/8/15 Project Number 695-13-122 Building Number 111	Office of Construction and Facilities Management 
							Approved: Project Director	Location Milwaukee, Wisconsin	Drawing Number A012	

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



Revisions:

Date

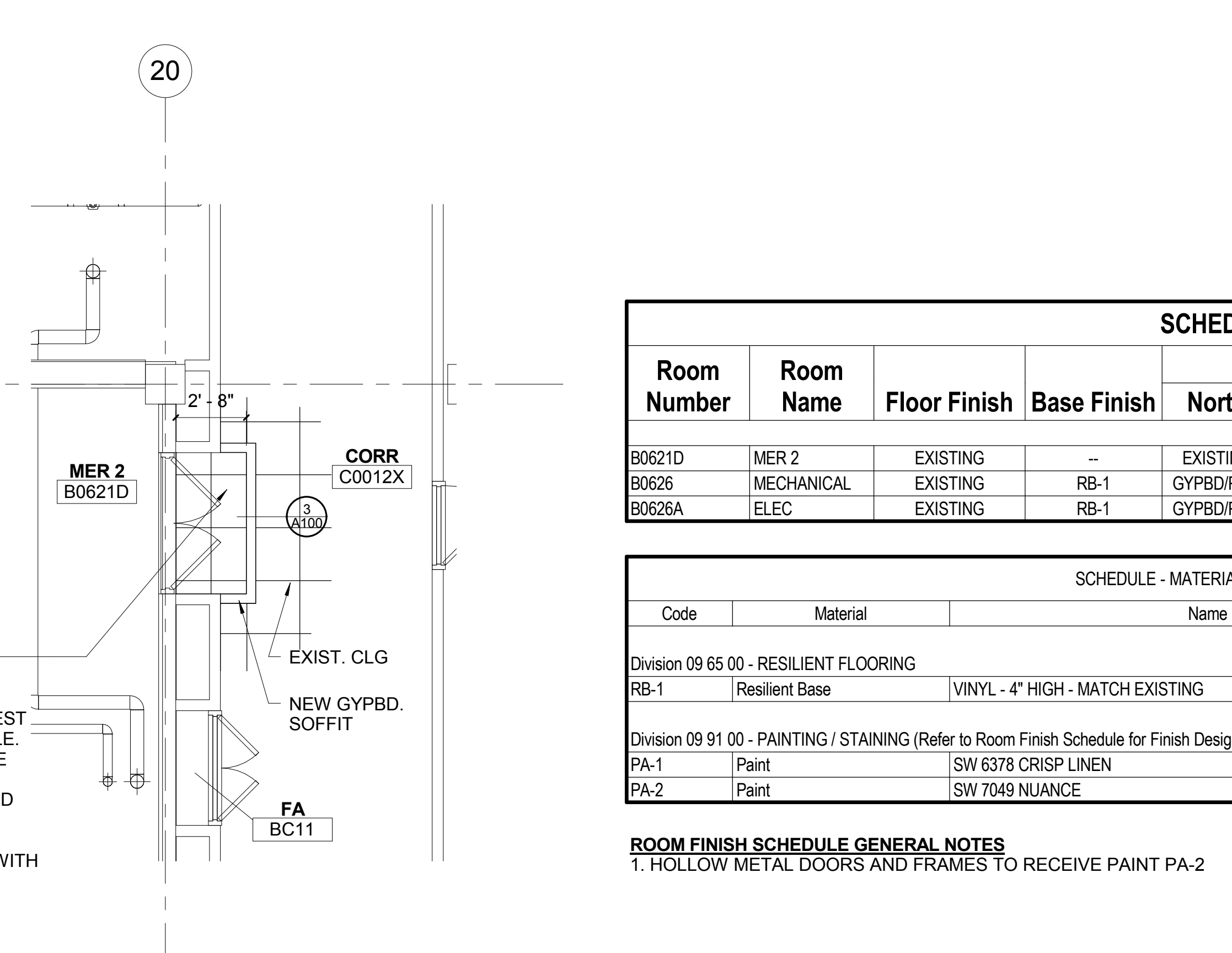
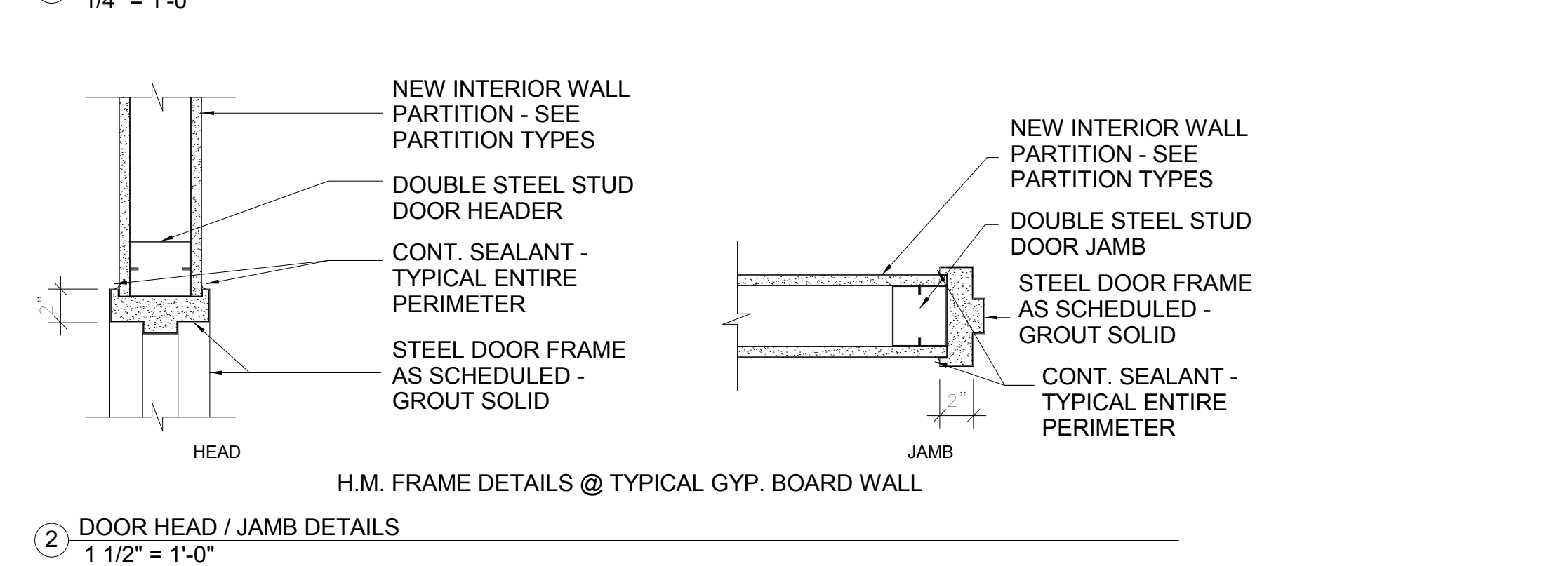
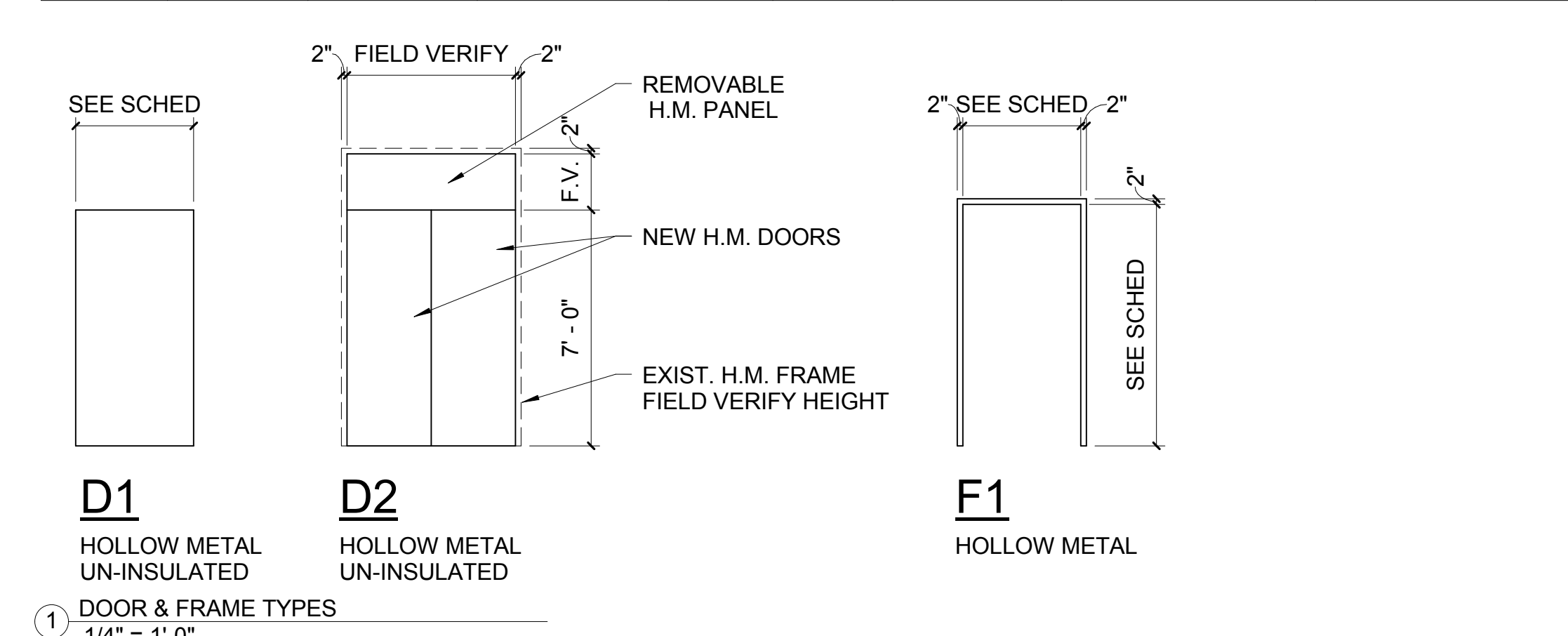
Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI

KEY PLAN
↑
EXISTING BLDG. 111

CONSULTANTS:

PROJECT LEADER/ARCHITECT:

Door Schedule								
Mark	Room Number	Room Name	Size	Door Type	Frame Type	Hardware Group	Assembly Rating	Comments
B0626	B0626	MECHANICAL	3'-0" x 7'-0"	EXIST	EXIST	EXIST	SMOKE RESISTIVE	
B0626A	B0626A	ELEC	3'-6" x 7'-0"	D1	F1	1.0	45 MIN.	



FLOOR PLAN SYMBOLS

1 INTERIOR ELEVATION

1 DETAIL/ENLARGED PLAN

WALL TYPE

ROOM NAME
ROOM NUMBER

NEW WALL - SEE WALL TYPES

EXISTING WALL TO REMAIN

NEW DOOR - SEE DOOR SCHEDULE

EXISTING DOOR TO REMAIN

ONE HOUR FIRE RESISTIVE WALL ASSEMBLY

SMOKE RESISTIVE WALL ASSEMBLY

CONSTRUCTION LIMITS

- FLOOR PLAN GENERAL NOTES
- EXISTING BUILDING DRAWINGS ARE BASED OFF OWNER-PROVIDED 'AS-BUILT' DRAWINGS. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING ALL EXISTING FLOOR-TO-FLOOR HEIGHTS, EXISTING FLOOR/WALL CONSTRUCTION, ALL EXISTING DIMENSIONS, ETC...
 - REPAIR ALL EXISTING SURFACES EITHER DAMAGED BY DEMOLITION OR WHERE NECESSARY TO MATCH NEW ADJACENT CONSTRUCTION.
 - SEE SPECIFICATIONS FOR MATERIALS SPECIFICATIONS & REQUIREMENTS.
 - MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.
 - CONSTRUCT A DUST-PROOF PARTITION TO SEPARATE AREAS OF CONSTRUCTION FROM ADJACENT OCCUPIED AREAS OUTSIDE SCOPE OF CONSTRUCTION.
 - ALL NEW WALLS ARE DIMENSIONED FACE OF WALL TO FACE OF WALL.
 - ALL NEW WALLS TO EXTEND TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE ABOVE.
 - ALL NEW INTERIOR WALLS TO BE TYPE 'A1' UNLESS NOTED OTHERWISE.

WALL PARTITION TYPES

8" CMU, RUNNING BOND, UP TO STRUCTURE ABOVE, W/HORIZONTAL REINFORCING @ ALTERNATE COURSES. PROVIDE SMOKE RESISTIVE CONSTRUCTION WHERE INDICATED ON PLANS.

SCHEDULE - ROOM FINISHES										
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish			Ceiling			Notes
				North	East	South	West	Type	Finish	
B0621D	MER 2	EXISTING	--	EXISTING	EXISTING	EXISTING	EXISTING	EXIST. STRUCT.	--	
B0626	MECHANICAL	EXISTING	RB-1	GYPBD/PA-1	CMU/PA-1	CMU/PA-1	CMU/PA-1	EXIST. STRUCT.	--	
B0626A	ELEC	EXISTING	RB-1	GYPBD/PA-1	CMU/PA-1	CMU/PA-1	GYPBD/PA-1	EXIST. STRUCT.	--	

SCHEDULE - MATERIAL SCHEDULE			
Code	Material	Name & Number	Manufacturer
Division 09 65 00 - RESILIENT FLOORING			
RB-1	Resilient Base	VINYL - 4" HIGH - MATCH EXISTING	MATCH EXISTING
Division 09 91 00 - PAINTING / STAINING (Refer to Room Finish Schedule for Finish Designation) PAE, PAF, PAS, PAT or PAX			
PA-1	Paint	SW 6378 CRISP LINEN	SHERWIN WILLIAMS
PA-2	Paint	SW 7049 NUJANCE	SHERWIN WILLIAMS

ROOM FINISH SCHEDULE GENERAL NOTES
1. HOLLOW METAL DOORS AND FRAMES TO RECEIVE PAINT PA-2

ROOM SIGN SCHEDULE					
Door Number	Room Sign Number	Room Sign Name	Sign Type	Sign Accent Color	Sign Schedule Remarks
B0626	B0626	Mechanical Equipment Room	A4.c		
B0626A	B0626 EC		A2		

BID SET

100% SUBMITTAL 10/8/15

Project Number
695-13-122

Building Number
111

Drawing Number
A100

Office of
Construction
and Facilities
Management

Project Title
Building 111 - Repair Expansion
Tank & HVAC Piping
Phase 1 - Expansion Tanks & Filtration

Location
Milwaukee, Wisconsin

Date
10/08/15

Checked
KJK

Drawn
KJK

Drawing Title
FLOOR PLANS AND
DETAILS

Approved: Project Director

Project Leader/Architect:

ASHLAND, WI • MILWAUKEE, WI
770.482.8000 • 414.258.4000
WWW.CHEQUAMEGON.COM

Consultants:

Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI

A

B

C

D

E

F

A

B

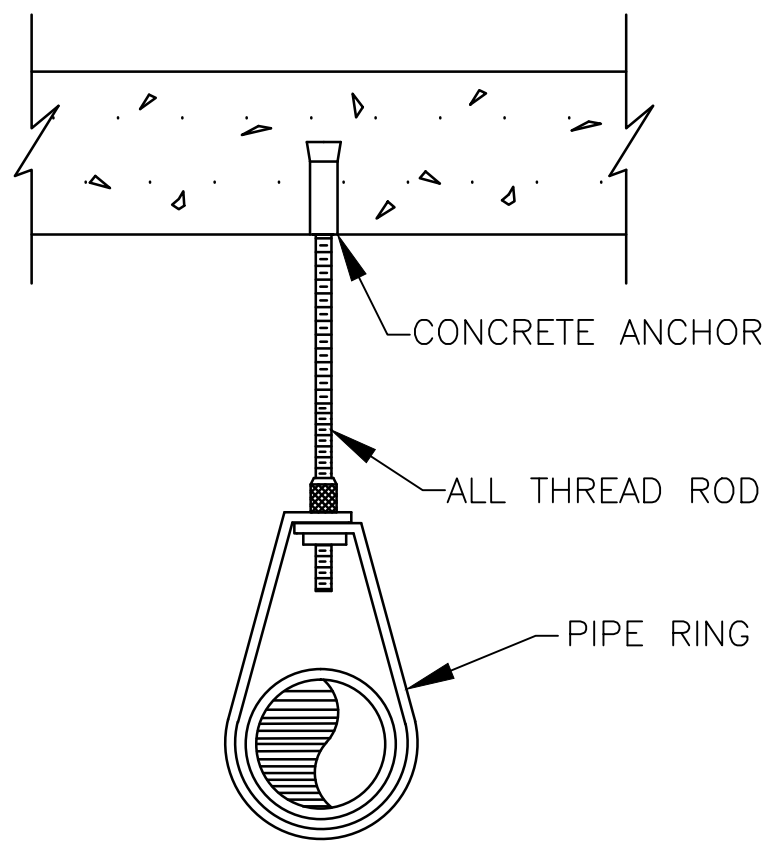
C

D

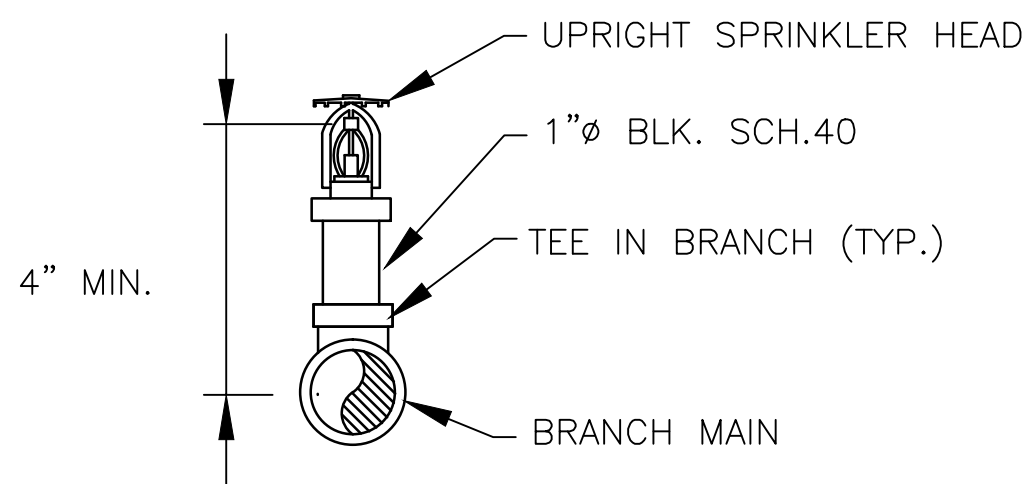
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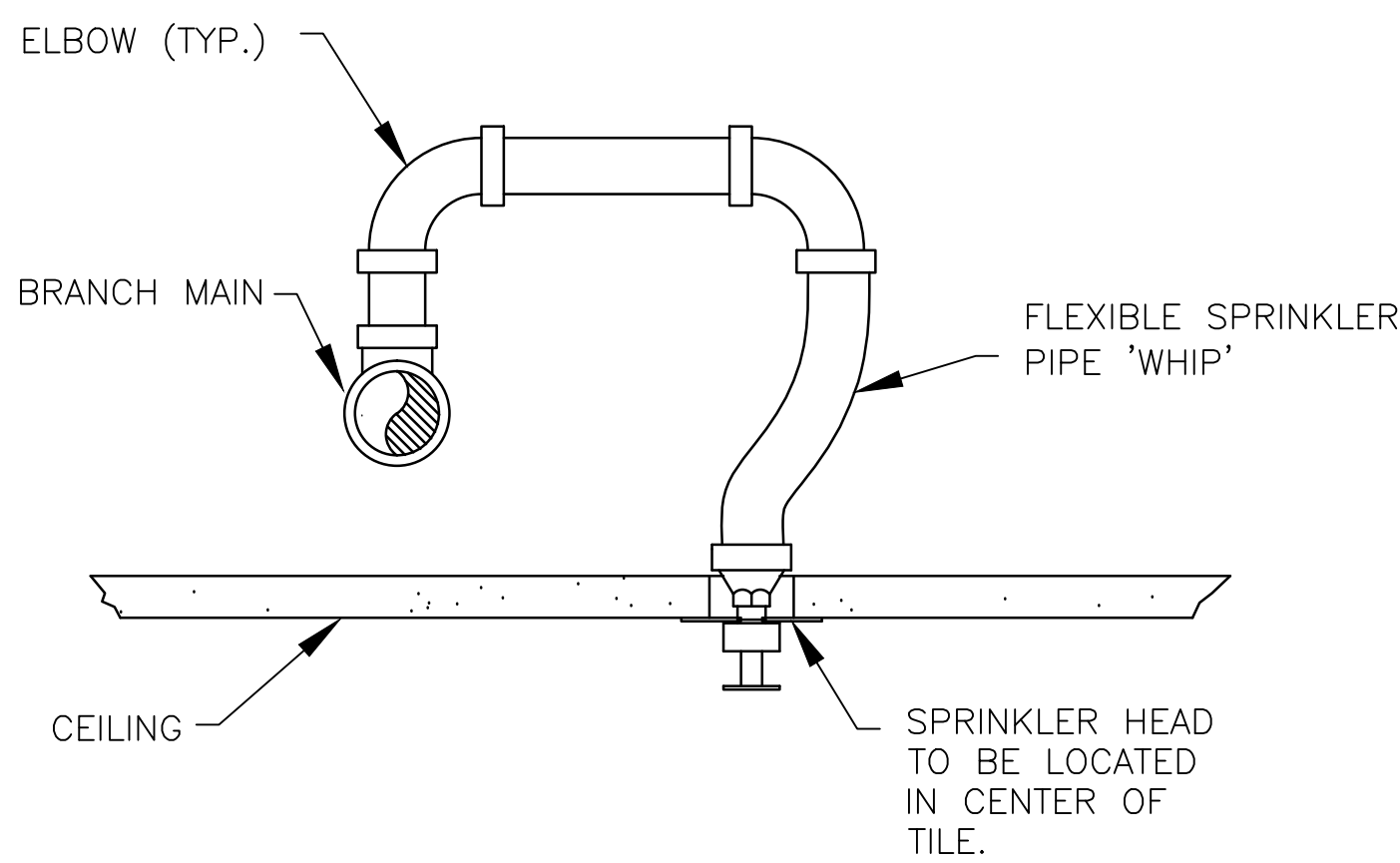
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



1 HANGER DETAIL
NTS



2 UPRIGHT SPRINKLER HEAD
INSTALLATION DETAIL
NTS



3 PENDANT SPRINKLER HEAD
INSTALLATION DETAIL
NTS

LEGEND

-----	EXISTING MATERIAL/EQUIPMENT TO BE REMOVED
_____	EXISTING MATERIAL/EQUIPMENT TO REMAIN
_____	NEW MATERIAL/EQUIPMENT
┐	ELBOW DOWN
┌	ELBOW UP
┐	TEE DOWN
┌	TEE UP
—F—	SPRINKLER PIPING
●	SPRINKLER
┌┐	BUTTERFLY VALVE, MANUAL
⊗	SPRINKLER RISER
⊗	POINT OF CONNECTION
⊗	FLOW CONTROL VALVE WITH TAMPER SWITCH
⊗	GATE VALVE
⊗	FLOW INDICATOR
—Z—	ALARM CHECK VALVE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AVG	AVERAGE
CFM	CUBIC FEET PER MINUTE
ELEV	ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FM	FIRE MAIN
FR	FIRE RISER
FVC	FIRE VALVE CABINET
GALS	GALLONS
GPH	GALLONS PER HOUR
GV	GATE VALVE
MAX	MAXIMUM
MIN	MINIMUM
NP	NOT PERMITTED
NC	NONCOMBUSTIBLE
OS&Y	OUTSIDE SCREW AND YOKE
PSIG	POUNDS PER SQUARE INCH GAUGE
SOV	SOLENOID VALVE
SQFT	SQUARE FEET
VLV	VALVE

FIRE ALARM SYMBOLS

⊗	WALL MOUNTED HORN/STROBE. MOUNT 7'-6" AFF.
⊗	WALL MOUNTED STROBE ONLY. MOUNT 7'-6" AFF
⊗	FIRE ALARM PULL STATION
⊗	CEILING MOUNTED STROBE ONLY.
⊗	FIRE DETECTOR; LETTER INDICATES AS FOLLOWS:
	BLANK-SMOKE DETECTOR
H	HEAT SMOKE
I	IONIZATION SMOKE
P	PHOTOELECTRIC SMOKE
IH	IONIZATION AND HEAT SMOKE
IP	IONIZATION AND PHOTOELECTRIC SMOKE
PH	PHOTOELECTRIC AND HEAT SMOKE
IPH	IONIZATION, PHOTOELECTRIC, AND HEAT

FIRE SUPPRESSION GENERAL NOTES

- FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A HYDRAULICALLY CALCULATED, WET PIPE SPRINKLER SYSTEM WITHIN THE SUITE. SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS.
- THE HYDRAULIC CALCULATIONS AND SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE SECTIONS OF THE NFPA STANDARDS VERIFIED BY ACTUAL TEST AT THE SITE, THE AVAILABLE WATER FLOW RATE, AND THE RESIDUAL PRESSURE. WHEN SUBMITTING SHOP DRAWINGS, INCLUDE COPIES OF WATER SYSTEM TEST REPORTS AND ALL HYDRAULIC CALCULATIONS WITH SYSTEM CURVES. INDICATE LOCATION OF WATER FLOWS AND PRESSURE TESTS, AND SHOW THESE TEST RESULTS AS BASIS FOR THE CALCULATIONS.
- FIRE SPRINKLER WORK SHALL INCLUDE CONNECTION TO EXISTING MAIN, WITH ALL REQUIRED DEVICES, INCLUDING DETECTOR CHECK VALVE, AND MISCELLANEOUS EQUIPMENT AS REQUIRED.
- COORDINATE LOCATION OF ALL MAINS, LATERALS AND PENDANT DROPS WITH MECHANICAL DRAWINGS AND REFLECTED CEILING PLANS. PROVIDE TWO COMPLETE SETS OF SHOP DRAWINGS, STAMPED BY THE FIRE PROTECTION AUTHORITY, TO THE CONSTRUCTION MANAGER PRIOR TO FABRICATION OR INSTALLATION OF THE SPRINKLER SYSTEMS.
- SPRINKLER PIPING SHALL BE CONCEALED ABOVE CEILING FINISHED AREAS AND SPRINKLER HEADS SHALL BE CHROME-PLATED. PIPING IN OTHER AREAS MAY BE EXPOSED AND SPRINKLER HEADS UPRIGHTS OR PENDANT TYPE, AS REQUIRED, NATURAL FINISH. THE GENERAL SPRINKLER PIPING SHALL BE INSTALLED AT MAXIMUM HEIGHT THROUGHOUT THE BUILDING STRUCTURE.
- PROVIDE SEISMIC BRACING AS REQUIRED TO MEET LOCAL CODES. PENDANT DROPS SHALL BE ADEQUATELY SUPPORTED/BRACED FROM STRUCTURE TO PREVENT PIPING FROM MOVING.
- COORDINATE WITH SPECIFICATIONS FOR MATERIALS, VALVES, EQUIPMENT, ETC.
- PRIOR TO CONNECTING THE OVERHEAD SPRINKLER PIPING, FLUSH UNDERGROUND MAIN AND STANDPIPE CONNECTIONS IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNERS INSURANCE AND /OR THE LOCAL REGULATORY AGENCY AND MEET WITH THEIR APPROVAL.
- HYDRAULICALLY TEST THE FIRE SPRINKLER SYSTEM BEFORE AND AFTER INSTALLATION, IN THE PRESENCE OF THE LOCAL FIRE MARSHAL AND PROVE TO BE TIGHT. UPON COMPLETION OF THE FIRE SPRINKLER SYSTEM, SUBMIT CERTIFICATE WHICH INDICATES THAT THE WORK HAS BEEN FLUSHED AND TESTED IN ACCORDANCE WITH NFPA 13 AND 14 AND THAT THE SYSTEM IS OPERATIONAL, COMPLETE, AND HAS NO DEFECTS.
- FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXACT CONNECTION LOCATION TO THE EXISTING SPRINKLER SYSTEM OF ADEQUATE SIZE SUPPLY MAIN FOR THE REMODELED AREA.
- THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 010110 SN-SPECIAL NOTES. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
- HOT WORK - SEE SPECIFICATION SECTIONS 01 01 10 SN - SPECIAL NOTES AND 01 35 26 - SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
- WORK HOURS:
DAYTIME - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

FIRE SUPPRESSION CODE SUMMARY

APPLICABLE PORTIONS OF THE FOLLOWING NATIONAL CODES AND STANDARDS SHALL BE REFERENCED:

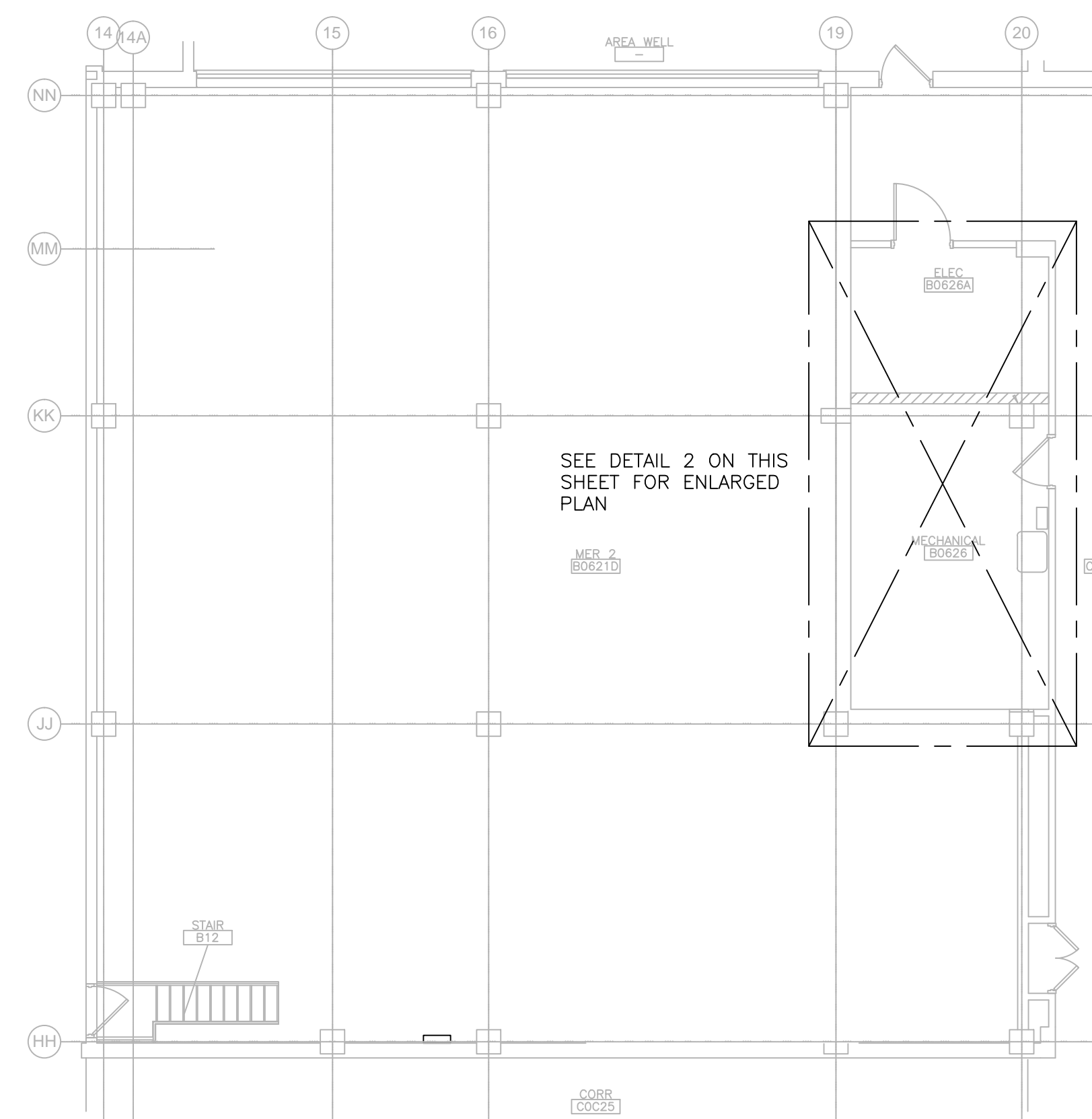
- INTERNATIONAL BUILDING CODE, 2009 EDITION.
- INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2009 EDITION
- VA FIRE PROTECTION DESIGN MANUAL
- NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 101, LIFE SAFETY CODE (LSC), 2009 EDITION.
- NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2010 EDITION.
- NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS, 2010 EDITION.
- NFPA 70, NATIONAL ELECTRICAL CODE, 2011 EDITION.
- NFPA 72, NATIONAL FIRE ALARM CODE, 2010 EDITION.
- NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2010 EDITION.
- NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, 2009 EDITION.
- NFPA 101
- NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2010 EDITION.
- ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS)

OCCUPANCY CLASSIFICATION

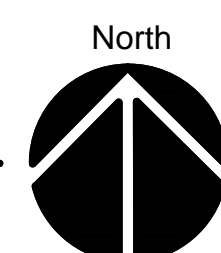
- PER INTERNATIONAL BUILDING CODE, CHAPTER 3:
- USE GROUP CLASSIFICATION = INSTITUTIONAL, GROUP 1-2 (INCLUDES OFFICE AREAS)

BID SET

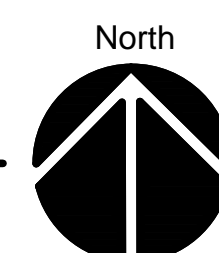
Revisions:	Date			KEY PLAN ↑ EXISTING BLDG. 111	CONSULTANTS: 	PROJECT LEADER/ARCHITECT: 	Drawing Title LEGENDS, ABBREVIATIONS, AND SYMBOLS Approved: Project Director	Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration Location Milwaukee, Wisconsin Date 10/08/15	100% SUBMITTAL 10/8/15 Project Number 695-13-122 Building Number 111 Drawing Number F001	Office of Construction and Facilities Management
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1 PARTIAL BASEMENT FLOOR PLAN - MER 2 (B06210)
SCALE: 1/8"=1'-0"



2 ENLARGED PLAN
SCALE: 1/4"=1'-0"



GENERAL NOTES

1. EXISTING FIRE PROTECTION SYSTEMS, INCLUDING FIRE ALARM SYSTEMS, SMOKE DETECTION SYSTEMS, AND SPRINKLER SYSTEM SHALL NOT BE IMPAIRED DURING CONSTRUCTION. SMOKE DETECTOR DISABLE REQUESTS.
2. OUTAGE REQUESTS TO BE SUBMITTED TO FM ENGINEER FOR APPROVAL FOR SPECIFIC DATE AND TIME. ALARMS WILL ONLY BE TURNED OFF FOR SPECIFIC REQUESTS AND WHEN CONSTRUCTOR ARE IN THE CONSTRUCTION AREA. ALARMS WILL BE RESTORED AT THE END OF THE WORK DAY BY CALLING THE SAME EXTENSION. AT NO TIME WILL ALARMS REMAIN OFF OVERNIGHT.
3. SMOKE DETECTORS AND OR SPRINKLER HEADS: DO NOT COVER BY BAGS, TAPE, AND PLASTIC OR ANY OTHER MANNER THAT WILL DEFEAT THEIR ABILITY TO SENSE SMOKE OR HEAT AND OPERATE AS DESIGNED.
4. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 01 01 10 SN - SPECIAL NOTES.
5. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
6. WORK ON HEATING SYSTEMS SHALL TAKE PLACE DURING THE NON-HEATING SEASON TO REDUCE DISRUPTIONS OF HOSPITAL OPERATIONS.
7. HOT WORK - SEE SPECIFICATION SECTIONS 01 01 10 SN - SPECIAL NOTES AND 01 35 26 - SAFETY REQUIREMENTS FOR ALL HOT WORK.
8. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
9. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR.
10. WORK HOURS:

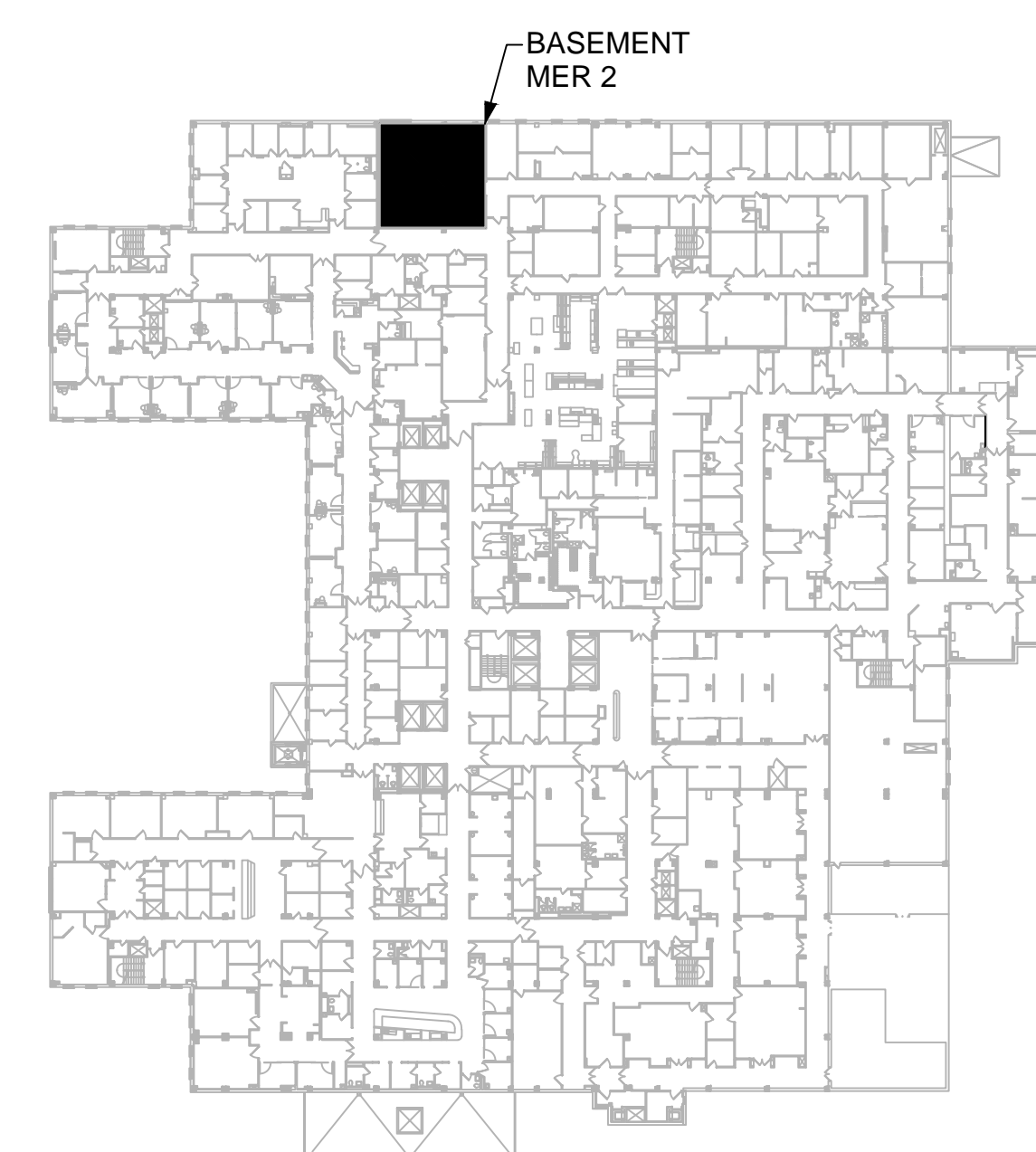
DAYTIME - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.

8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.

WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE /
CRANES.

KEYED NOTES

- ① EC SHALL RELOCATE DISCONNECT AND EXTEND WIRING AND CONDUIT TO NEW LOCATION FOR AC TECH INTELLIGENT DRIVE.
- ② EC SHALL REMOVE AND TURN OVER TO VA EXISTING CAMERA.
- ③ EC SHALL REPLACE EXISTING TIMER LIGHT SWITCH WITH NON AUTOMATIC TOGGLE SWITCH.



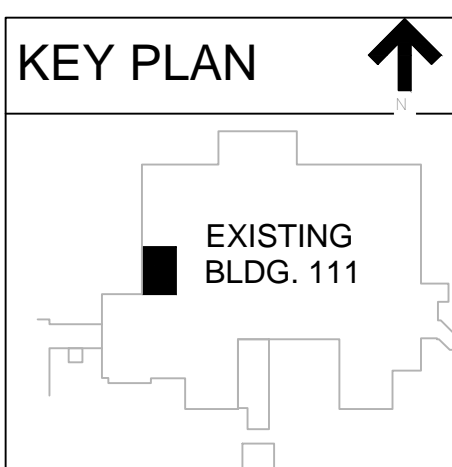
KEY PLAN



NORTH

[illegible]

Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI



CONSULTANTS:



PROJECT LEADER/ARCHITECT:



Drawing Title
**FLOOR PLANS -
FIRE ALARM**

Approved: Project Director

BID SET

Project Title	Building 111 - Repair Expansion Tank & HVAC Piping
---------------	--

Phase 1 - Expansion Tanks & Filtration

Location	Milwaukee
Date	10/08/15

Wisconsin	Checked
	DMV

Drawn
TM

100% SUBMITTAL 10/8/15

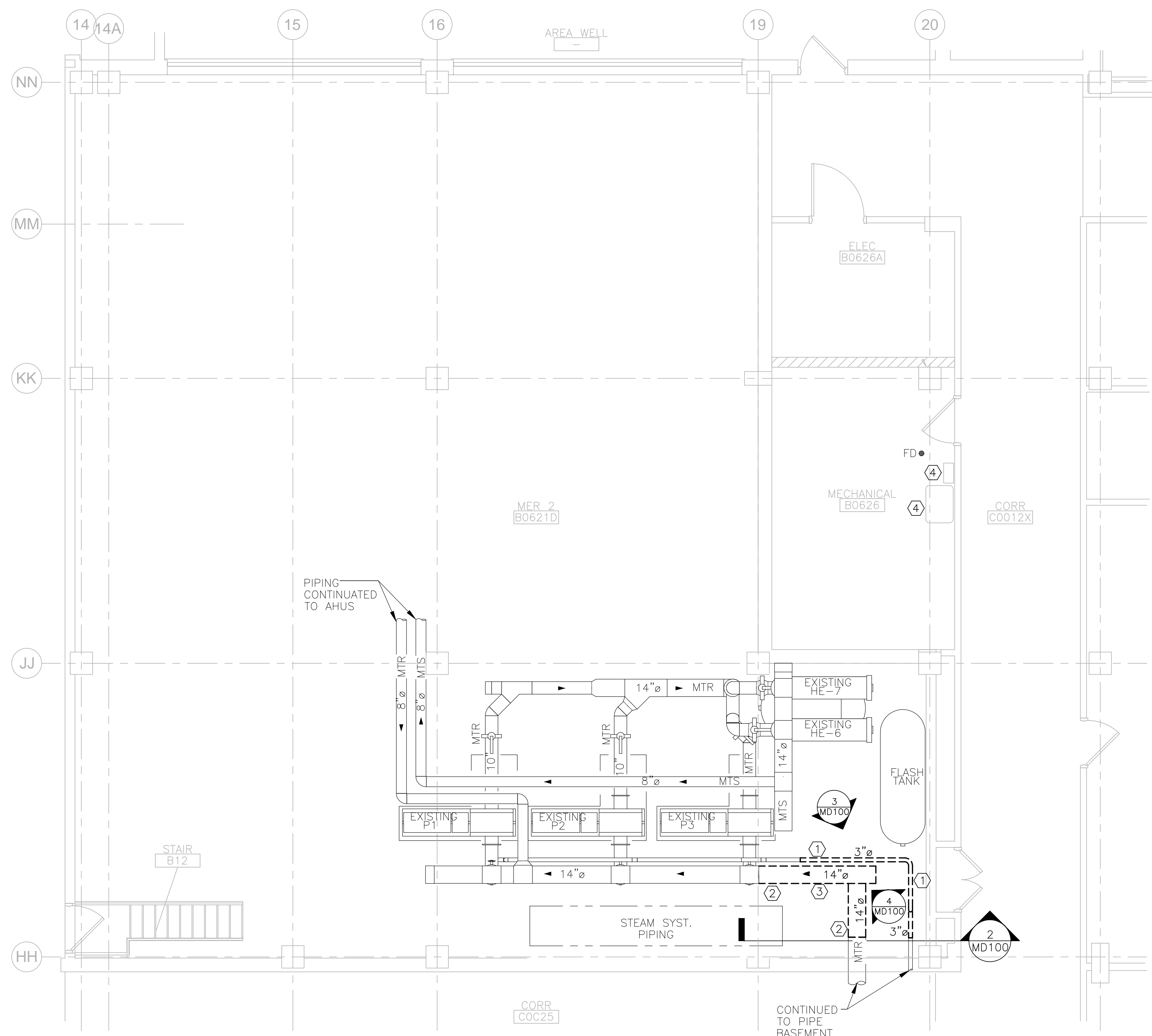
Project Number	
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Building Number
111

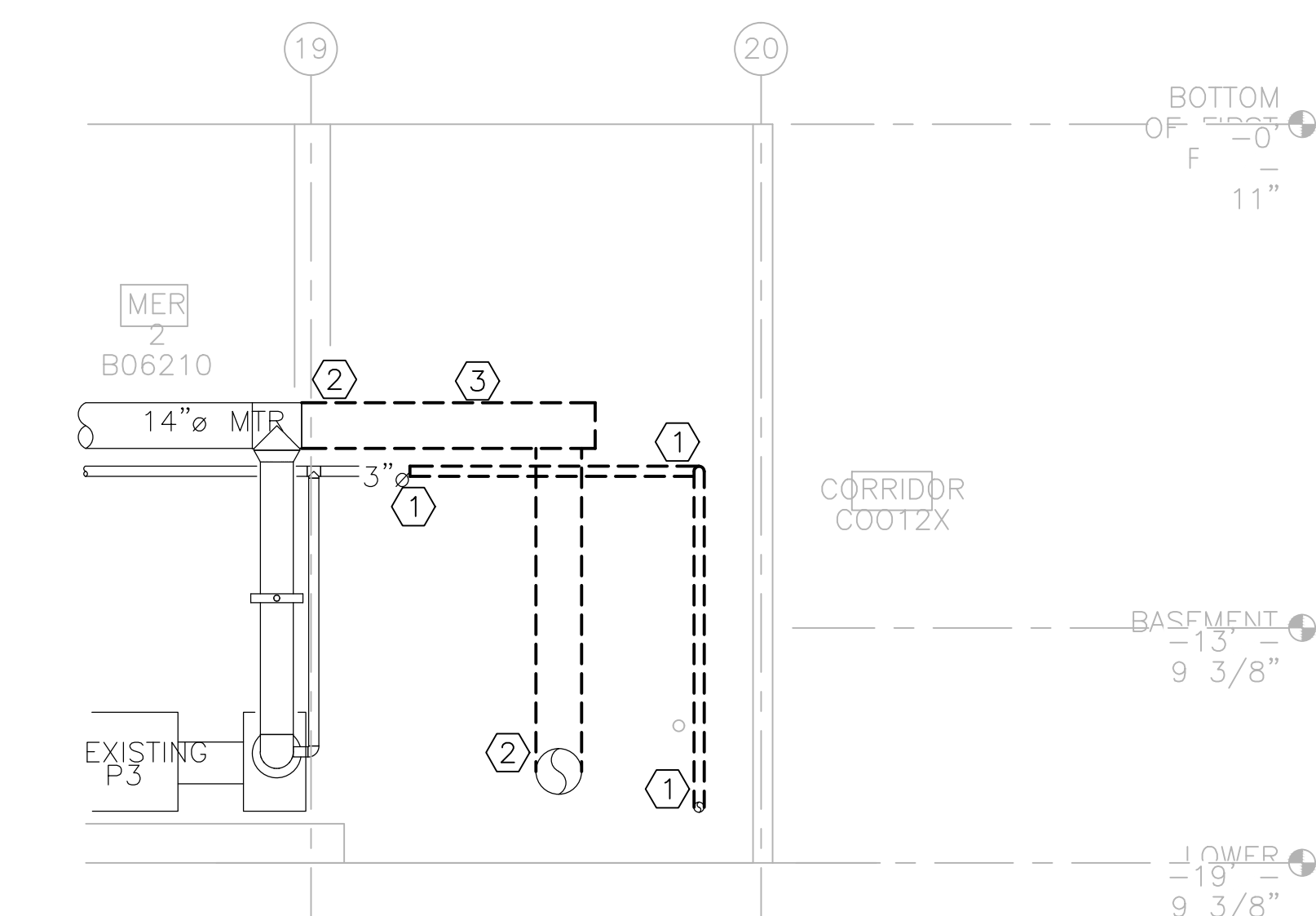
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FA100

Office of
Construction
and Facilities
Management

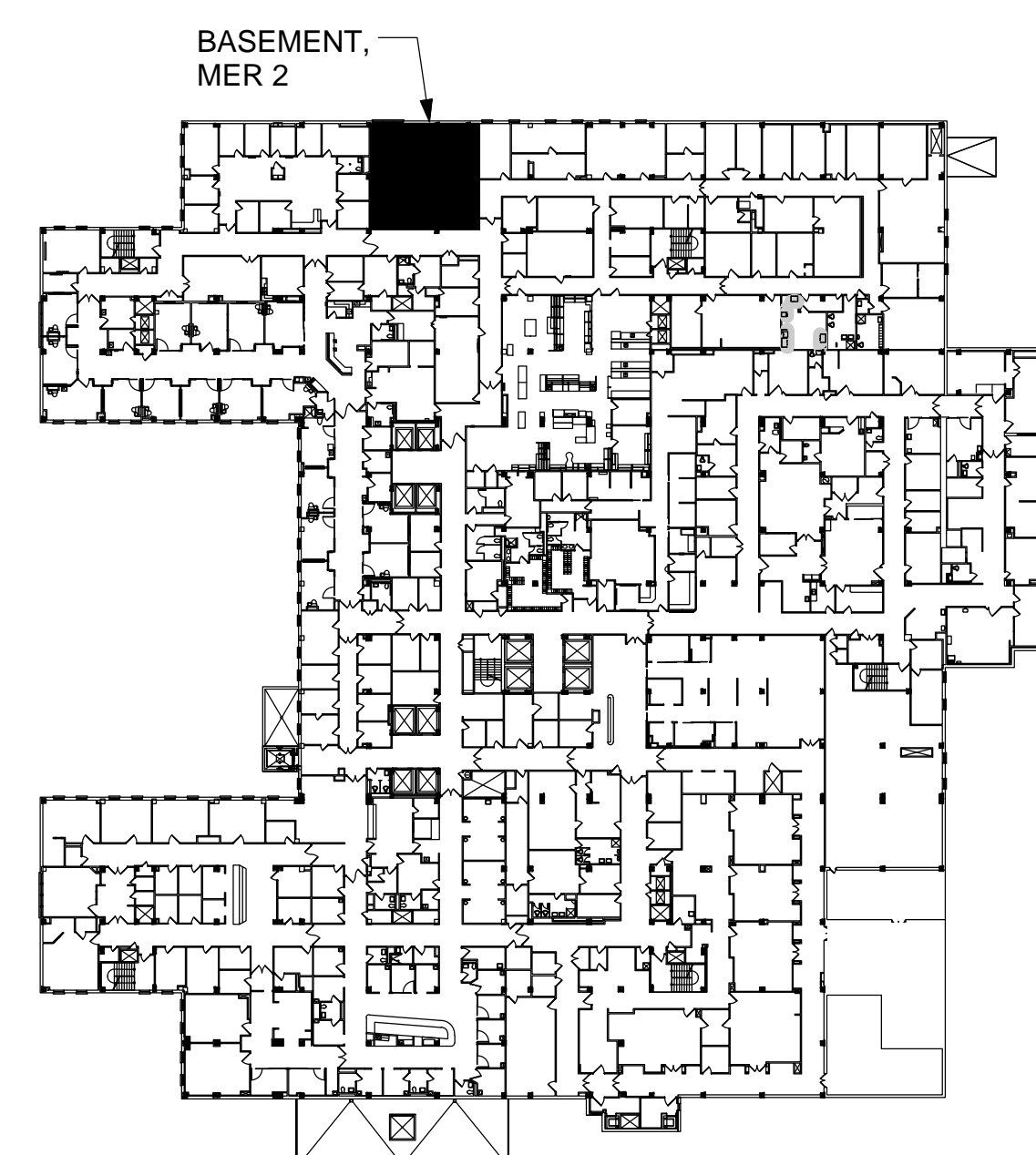




1 BASEMENT FLOOR PLAN - MER 2
SCALE: 1/4" = 1'-0"



② SECTION
SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN ARE BASED ON SITE OBSERVATIONS AND EXISTING DOCUMENTS. CONTRACTOR SHALL VERIFY IN A NON-DESTRUCTIVE MANNER ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
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3. ALL OUTAGES TO BE COORDINATED WITH VA COR AND APPROVED IN WRITING BY VA, MEDICAL CENTER.
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5. CONTRACTOR TO REFER TO PHASING PLANS AND SPECIFICATIONS. CONTRACTOR TO ACCOUNT FOR WORK TO BE COMPLETED DURING OFF HOURS, WEEKENDS, AND HOLIDAYS.
6. EXISTING EQUIPMENT (AHUS, PANELS, VALVING, ETC) NOT SHOWN FOR CLARITY.
7. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 010110 SN-SPECIAL NOTES.
8. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
9. HOT WORK - SEE SPECIFICATION SECTIONS 01 01 10 SN - SPECIAL NOTES AND 01 35 26 - SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
10. WORK HOURS:

DAYTIME - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.

8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.

WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

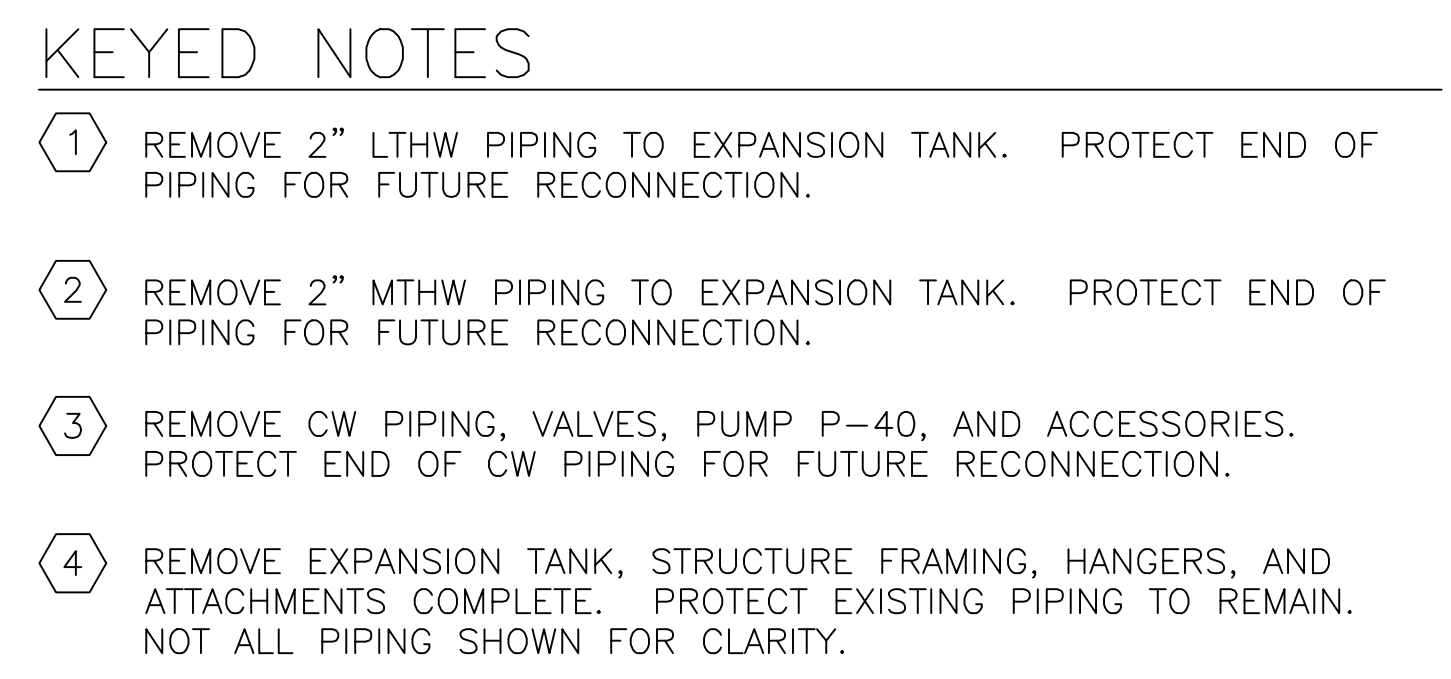
KEYED NOTES

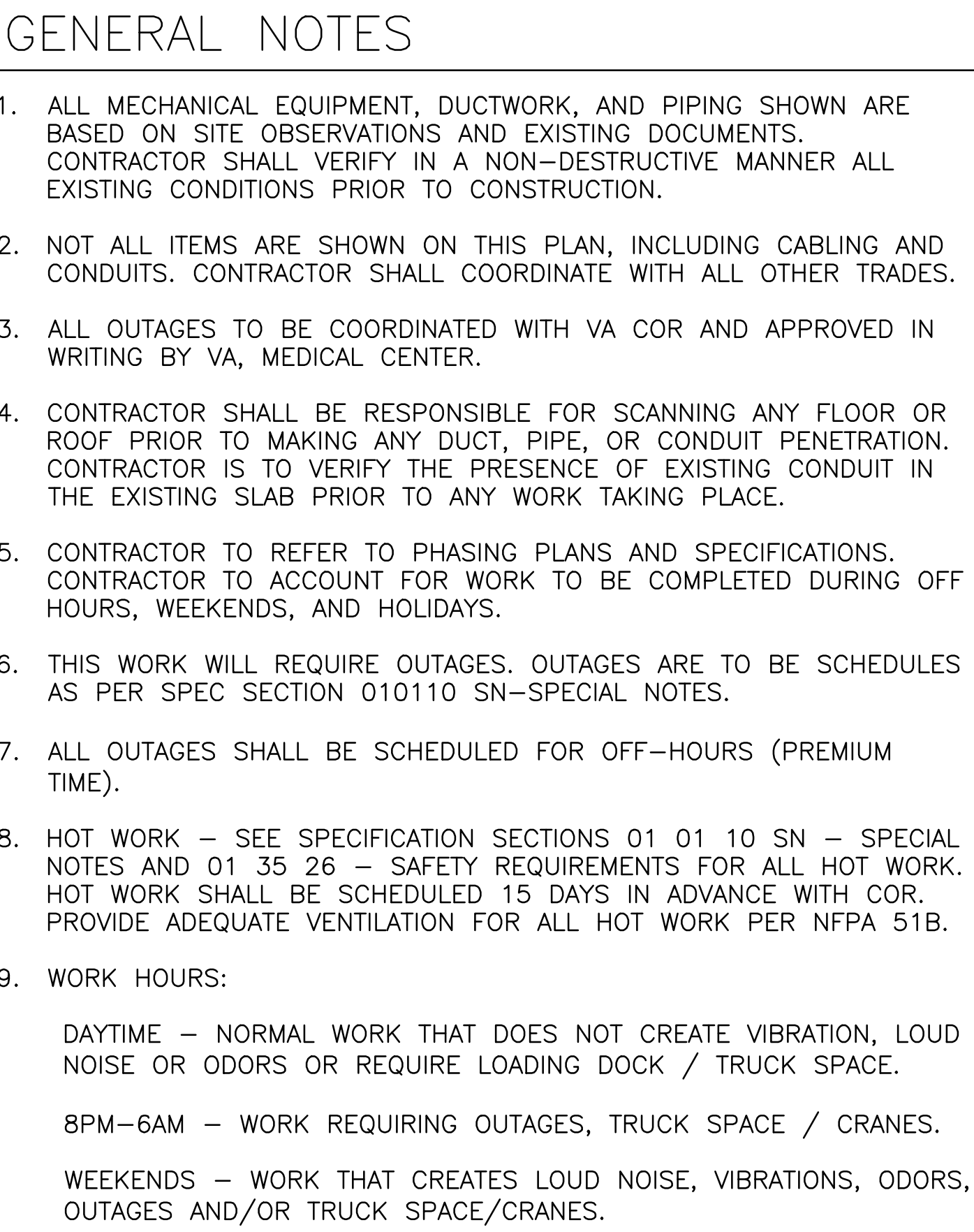
- 1 REMOVE 3" BYPASS PIPING AS INDICATED TO VALVE AND INSTALL BLIND FLANGE.
- 2 MTR BYPASS PIPING TO BE INSTALLED PRIOR TO ANY DEMOLITION WORK TO START. SEE DETAIL 1 ON SHEET MH100 FOR HOT TAP VALVE AND LINE STOP LOCATIONS.
- 3 REMOVE 14" MTR PIPING AS INDICATED AFTER HOT TAP ISOLATION AND LINE STOP VALVES ARE INSTALLED.
- 4 PROTECT EXISTING VALVE BOX AND SINK

BID SET




		 <div>Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI</div>				<div>KEY PLAN</div>  <div>EXISTING BLDG. 111</div>		<div>CONSULTANTS:</div> <div><div>PCG DESIGN BUILD SERVICES</div></div> <div><div>THE SIGMA GROUP Single Source. Sound Solutions.</div></div>		<div>PROJECT LEADER/ARCHITECT:</div> <div><div>Chequamegon ASHLAND, WI • MILWAUKEE, WI (715) 255-2000 • (414) 316-0100 WWW.CHEQUAMEGONDB.COM</div></div>		<div>Drawing Title</div> <div>FLOOR PLAN AND SECTION - DEMOLITION</div> <div>Approved: Project Director</div>		<div>Project Title</div> <div>Building 111 - Repair Expansion Tank & HVAC Piping</div> <div>Phase 1 - Expansion Tanks & Filtration</div>		<div>Project Number</div> <div>695-13-122</div>		<div>Building Number</div> <div>111</div>		<div>Drawing Number</div> <div>MD100</div>		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>	
Revisions:		Date																					






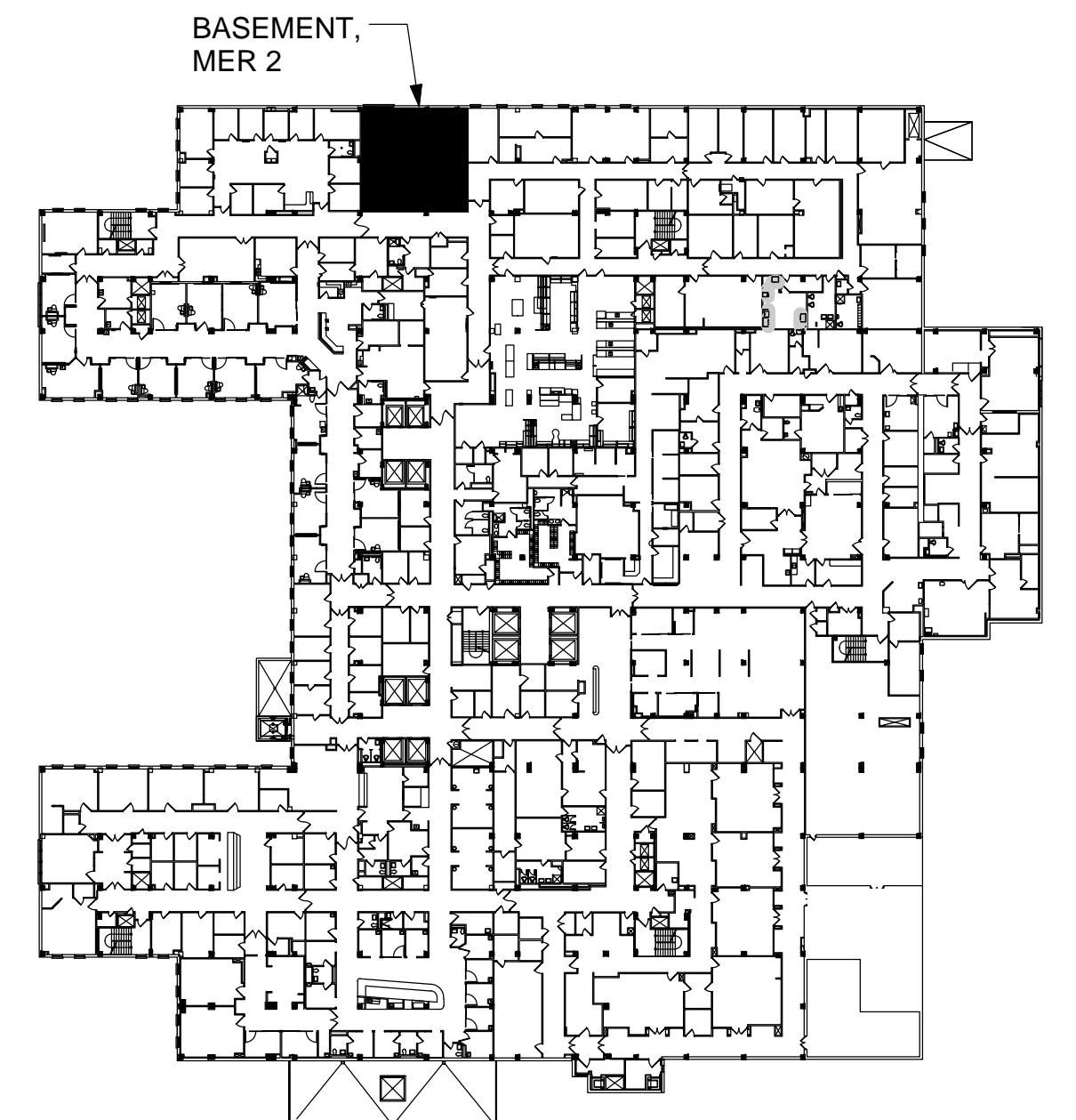
- 1 REMOVE PORTION OF MTR PIPING FOR INSTALLATION OF BYPASS AND AIR SEPARATOR.
- 2 REMOVE EXPANSION TANK AND ACCESSORIES COMPLETE. REMOVE COLD WATER PIPING BACK TO BACKFLOW PREVENTOR AND CAP. PROTECT PIPING FOR RECONNECTION.

100% SUBMITTAL 10/8/15	
Project Number 695-13-122	Office of Construction and Facilities Management
Building Number 111	
Drawing Number MD401	
 Department of Veterans Affairs	

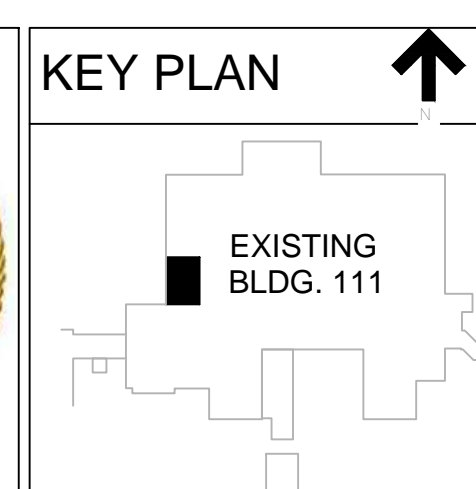


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3. ALL OUTAGES TO BE COORDINATED WITH VA COR AND APPROVED IN WRITING BY VA, MEDICAL CENTER.
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5. CONTRACTOR TO REFER TO PHASING PLANS AND SPECIFICATIONS. CONTRACTOR TO ACCOUNT FOR WORK TO BE COMPLETED DURING OFF HOURS, WEEKENDS, AND HOLIDAYS.
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7. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 010110 SN-SPECIAL NOTES.
8. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
9. HOT WORK - SEE SPECIFICATION SECTIONS 01 01 10 SN - SPECIAL NOTES AND 01 35 26 - SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
9. WORK HOURS:
DAYTIME - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

- 1 AUTOMATIC WATER TREATMENT SYSTEM. SEE DETAIL 5 ON SHEET MH501 FOR ADDITIONAL INFORMATION.
- 2 1-1/2" BACKFLOW PREVENTER WITH PRESSURE REDUCER VALVE AND BYPASS.
- 3 INSTALL HOT TAP AND LINE STOP. SEE PLAN FOR PIPE SIZES.
- 4 CONNECT NEW 14" MTR PIPING TO EXISTING AS INDICATED AFTER HOT TAP ISOLATION AND LINE STOP VALVES ARE INSTALLED.
- 5 CONNECT NEW 3" MTR PIPING TO EXISTING AS INDICATED AFTER HOT TAP ISOLATION AND LINE STOP VALVES ARE INSTALLED.
- 6 CONNECT TO EXISTING COLD WATER PIPING ABOVE SINK AND ROUTE TO NEW BACKFLOW PREVENTOR. ROUTE DRAIN TO FLOOR DRAIN.
- 7 NEW FLOOR DRAIN WITH P-TRAP. CONTRACTOR TO CORE HOLE AND PATCH AS REQUIRED. CONNECT SANITARY PIPING TO NEAREST EXISTING 4" SANITARY PIPING ON FLOOR BELOW BY EXISTING FLOOR DRAIN. CONNECT 2" VENT TO VENT MAIN ON FLOOR BELOW.
- 8 PROVIDE BLOW DOWN PIPING. ROUTE TO NEW FLOOR DRAIN.



Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI




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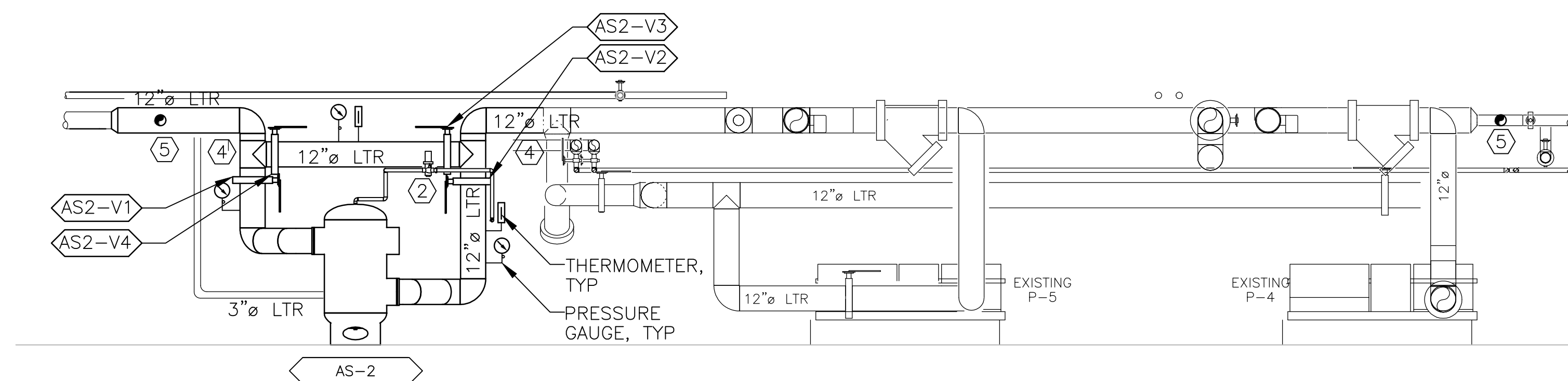
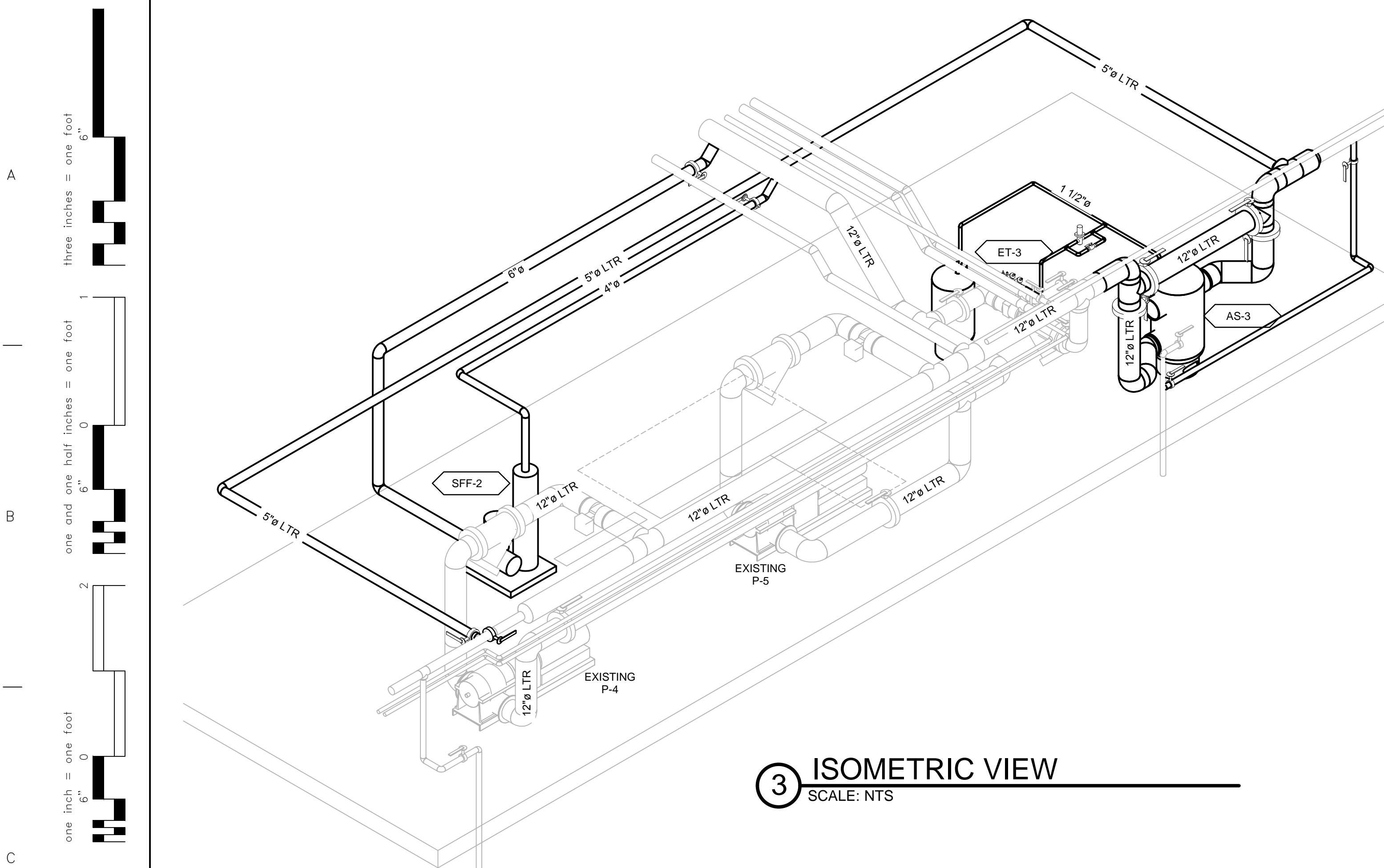


Chequamegon
PAPER GROUP, INC.

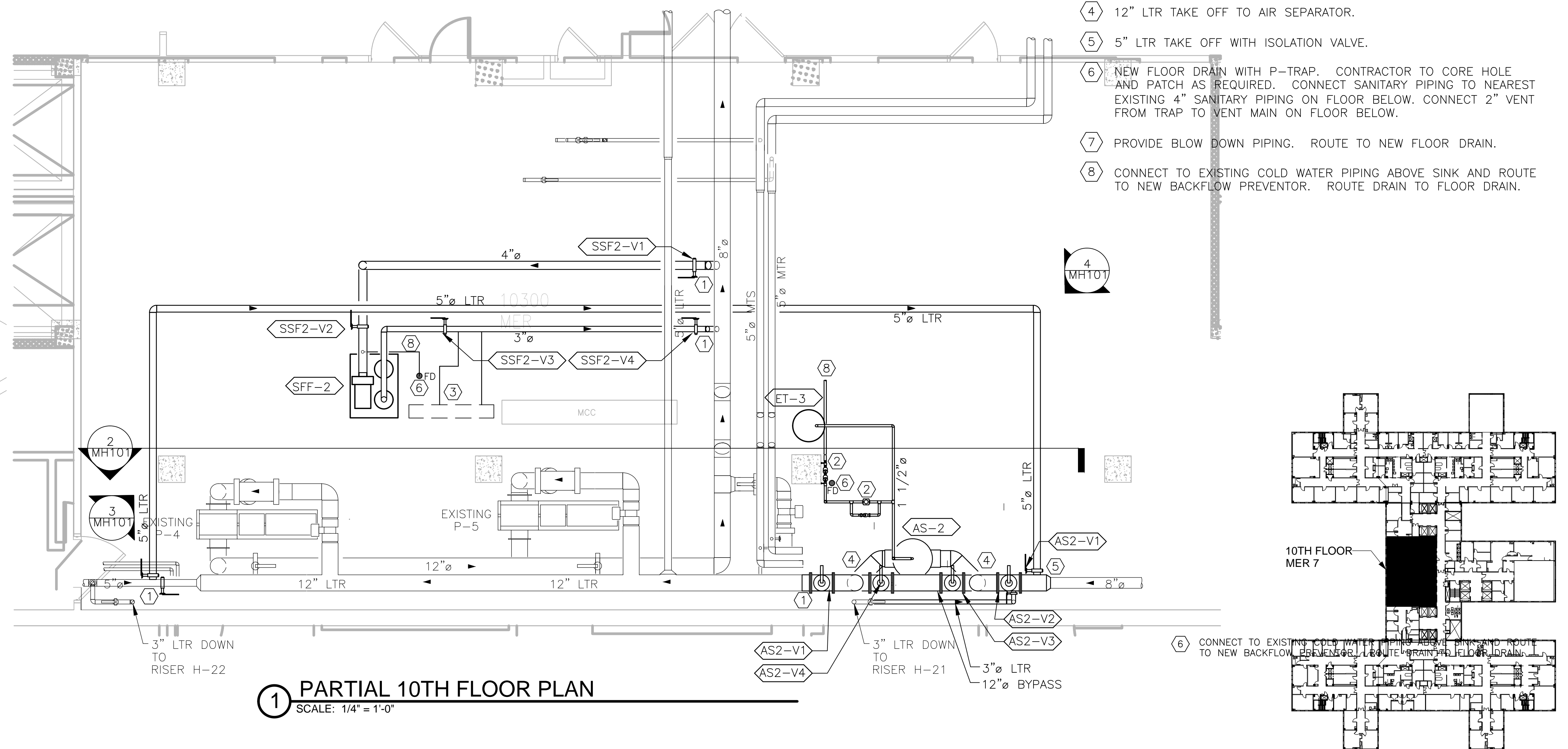
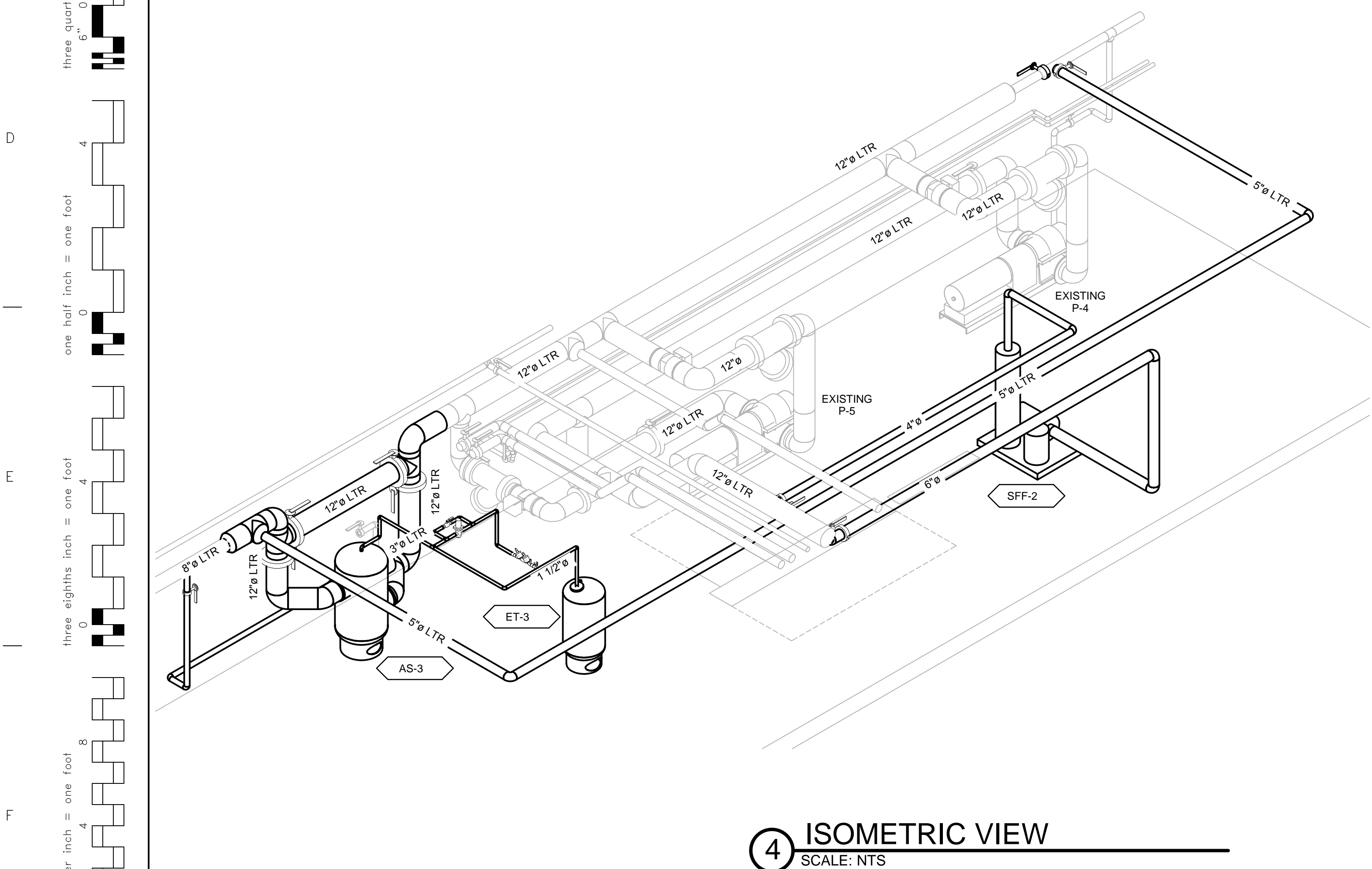
ASHLAND, WI • MILWAUKEE, WI
(715) 482-4004 • (414) 388-0024

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100% SUBMITTAL 10/8/15	
Project Number 695-13-122	Office of Construction and Facilities Management
Building Number 111	
Drawing Number MH100	
 Department of Veterans Affairs	



② SECTION
SCALE: 1/4" = 1'-0"

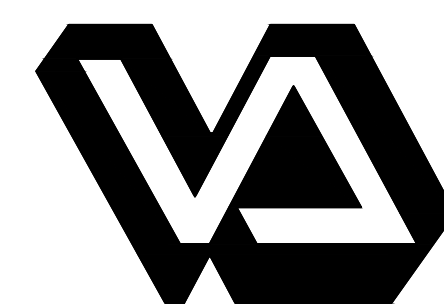


GENERAL NOTES

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 5. CONTRACTOR TO REFER TO PHASING PLANS AND SPECIFICATIONS. CONTRACTOR TO ACCOUNT FOR WORK TO BE COMPLETED DURING OFF HOURS, WEEKENDS, AND HOLIDAYS.
 6. MOUNT PIPING AS HIGH AS POSSIBLE. COORDINATION ROUTING OF PIPING SO THERE IS NO IMPACT TO ELECTRICAL CLEARANCES.
 6. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 010110 SN-SPECIAL NOTES.
 7. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
 8. HOT WORK — SEE SPECIFICATION SECTIONS 01 01 10 SN — SPECIAL NOTES AND 01 35 26 — SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
 9. WORK HOURS:  7:00 - 6:00
- DAYTIME — NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
- 8PM-6AM — WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
- WEEKENDS — WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

KEYED NOTES

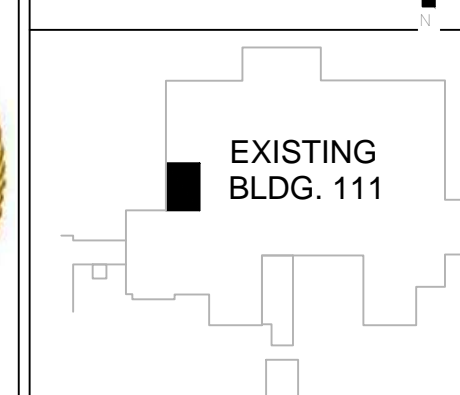
- ① INSTALL HOT TAP AND LINE STOP. SEE PLAN FOR PIPE SIZES.
- ② 1-1/2" BACKFLOW PREVENTER WITH PRESSURE REDUCER VALVE AND BYPASS.
- ③ AUTOMATIC WATER TREATMENT SYSTEM. SEE DETAIL 5 ON SHEET MH501 FOR ADDITIONAL INFORMATION.
- ④ 12" LTR TAKE OFF TO AIR SEPARATOR.
- ⑤ 5" LTR TAKE OFF WITH ISOLATION VALVE.
- ⑥ NEW FLOOR DRAIN WITH P-TRAP. CONTRACTOR TO CORE HOLE AND PATCH AS REQUIRED. CONNECT SANITARY PIPING TO NEAREST EXISTING 4" SANITARY PIPING ON FLOOR BELOW. CONNECT 2" VENT FROM TRAP TO VENT MAIN ON FLOOR BELOW.
- ⑦ PROVIDE BLOW DOWN PIPING. ROUTE TO NEW FLOOR DRAIN.
- ⑧ CONNECT TO EXISTING COLD WATER PIPING ABOVE SINK AND ROUTE TO NEW BACKFLOW PREVENTOR. ROUTE DRAIN TO FLOOR DRAIN.

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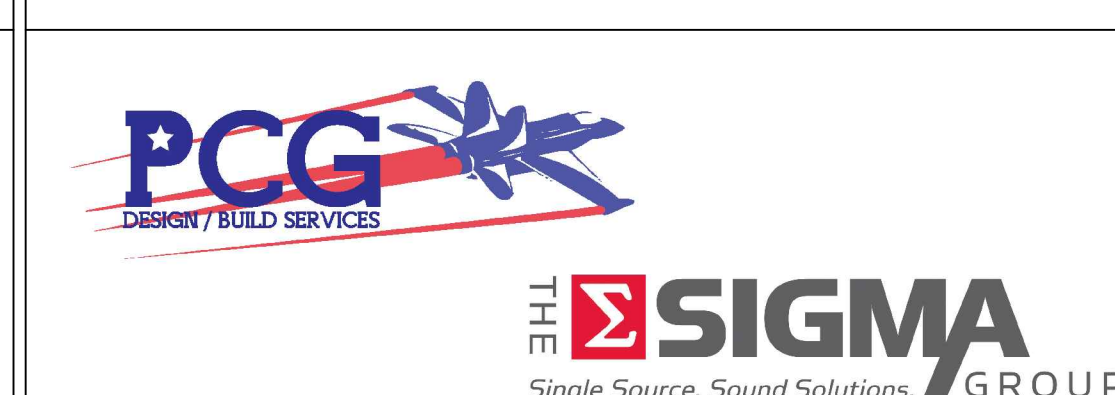
Dept. of Veterans Affairs
Medical Center
▶ 5000 W. National Avenue
Milwaukee, WI



KEY PLAN



CONSULTANTS:



PROJECT LEADER/ARCHITECT:



Drawing Title	FLOOR PLAN, SECTION, AND ISOMETRIC VIEWS - NEW WORK
---------------	---

Approved: Project Director

Project Title	Building 111 - Repair Expansion Tank & HVAC Piping
Phase 1 - Expansion Tanks & Filtration	

Location Milwaukee, Wisconsin		
Date 10/08/15	Checked HFB	Drawn EAO

100% SUBMITTAL 10/8/15

Project Number	605 12 122
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695-13-122
Building Number 111

Drawing Number

MH101

Office of
Construction
and Facilities
Management




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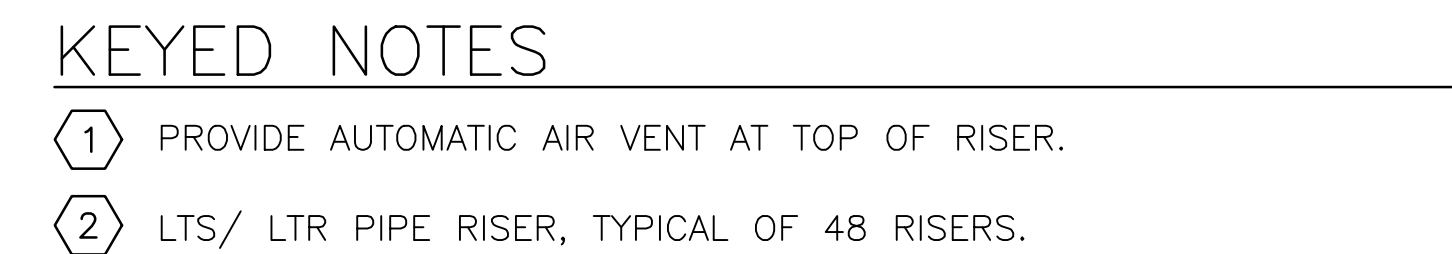


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WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

1 CONNECT TO EXISTING CW PIPING AND ROUTE TO EXISTING LTHW AND MTHW PIPING CONNECTIONS.

Project Number 695-13-122	<div>Office of Construction and Facilities Management</div>
Building Number 111	
Drawing Number MH102	
	 <div>Department of Veterans Affairs</div>

9

VA FORM 08-6231



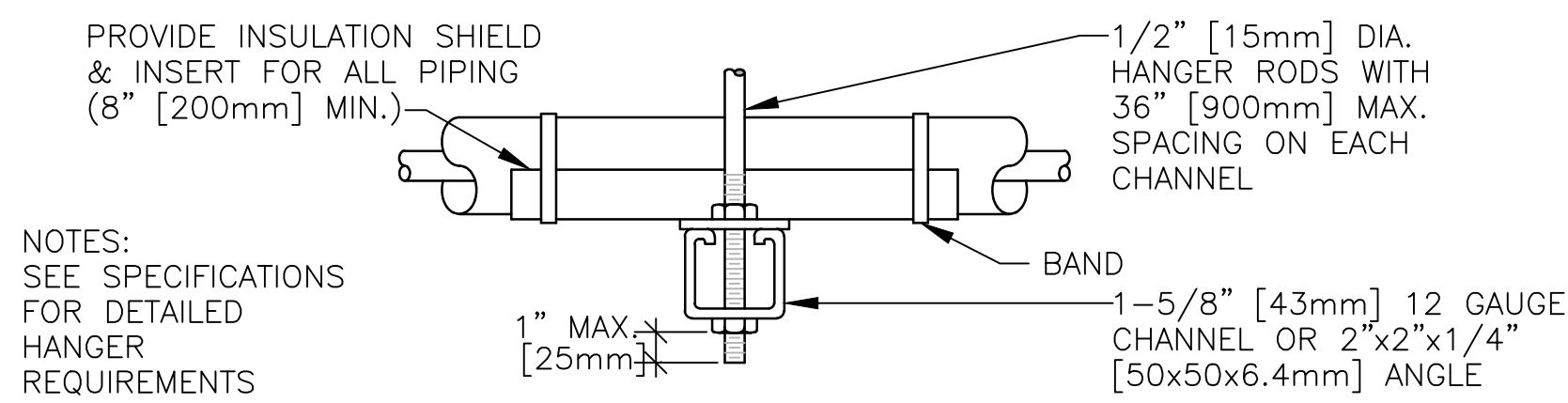
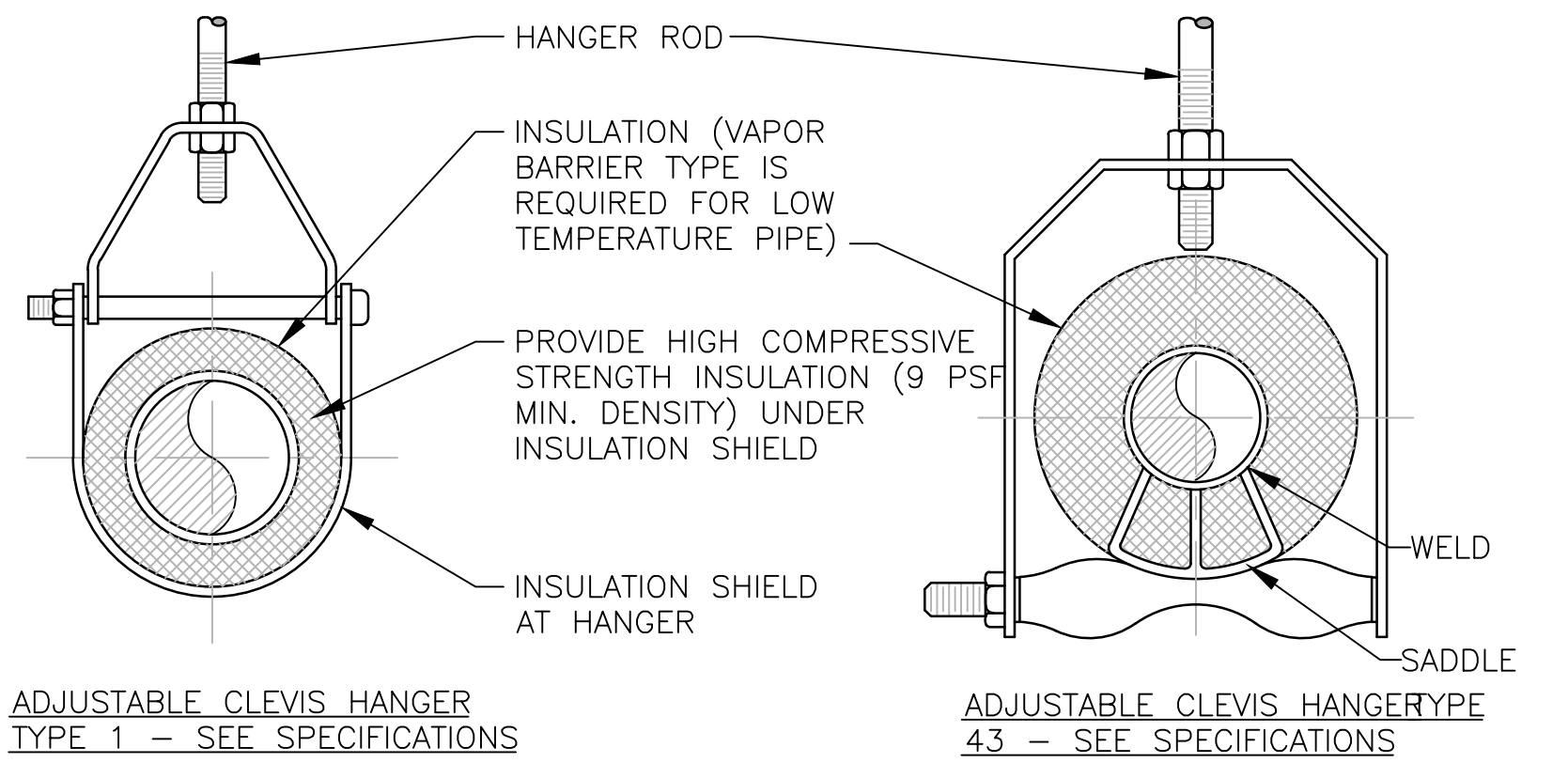
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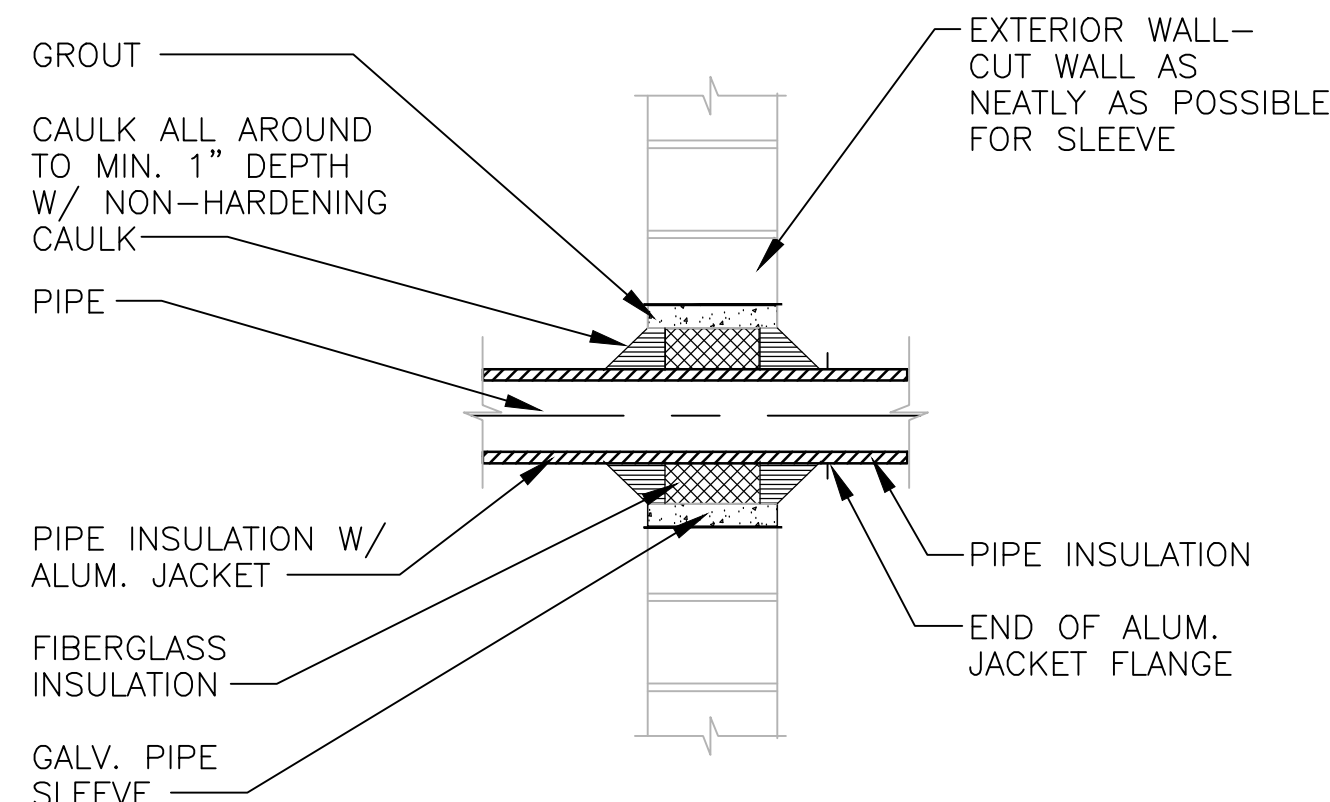


NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

MAXIMUM PIPE/TUBING SUPPORT SPACING												
NOM. SIZE	IN. THRU	3/4	1	1 1/4	1 1/2	2	2 1/4	3	4	5	6	
FT.	[mm]	[20]	[25]	[32]	[40]	[50]	[65]	[75]	[100]	[125]	[150]	
PIPE	[mm]	[2100]	[2100]	[2100]	[2700]	[3000]	[3400]	[3700]	[4100]	[4900]	[5200]	
TUBING	FT.	5 FT	6	7	8	8	9	10	12	13	14	
	[mm]	[1500]	[1800]	[2100]	[2400]	[2400]	[2700]	[3000]	[3700]	[4000]	[4100]	

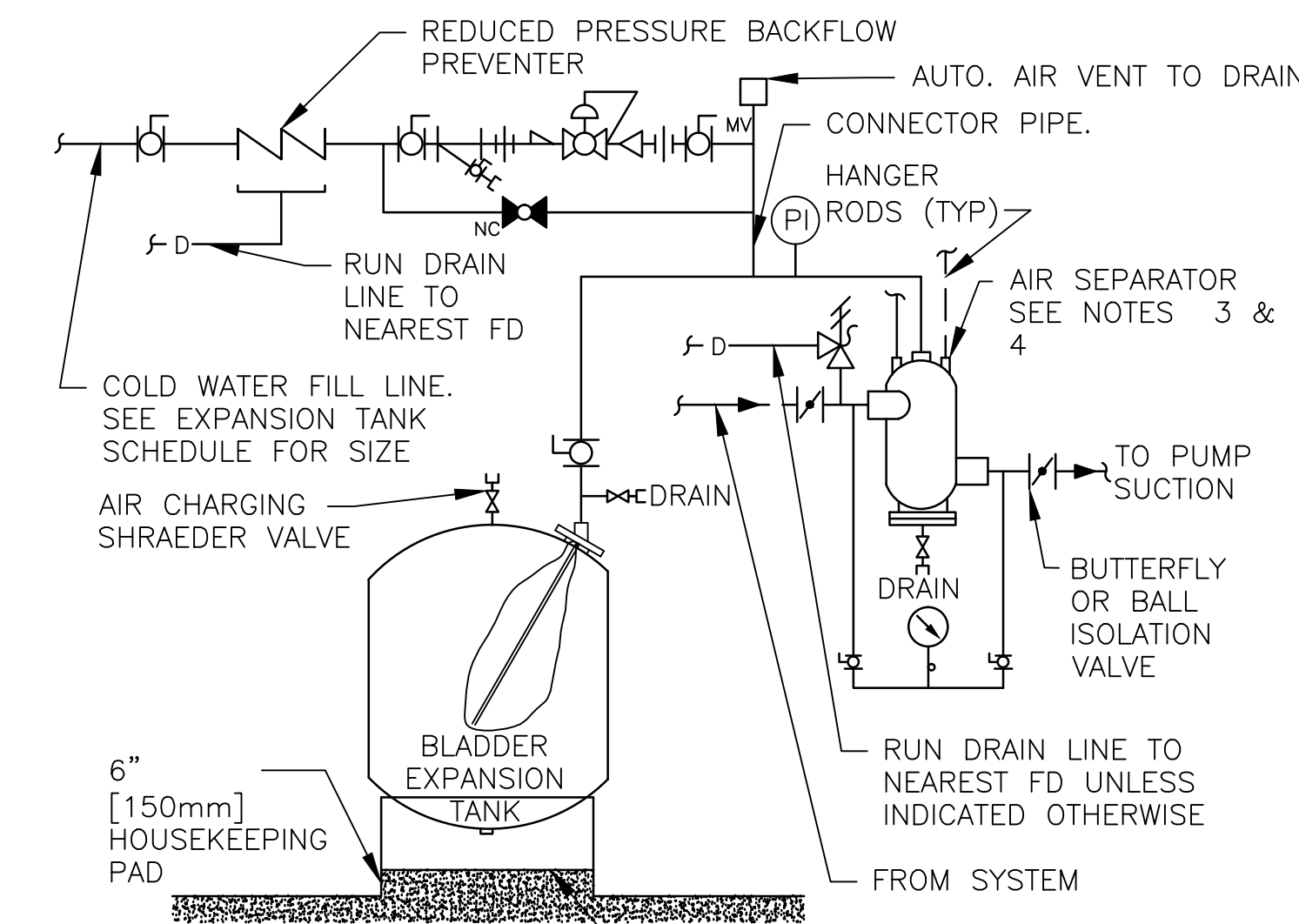
1 PIPE HANGERS

NTS



2 PIPING THROUGH EXTERIOR WALL

NTS

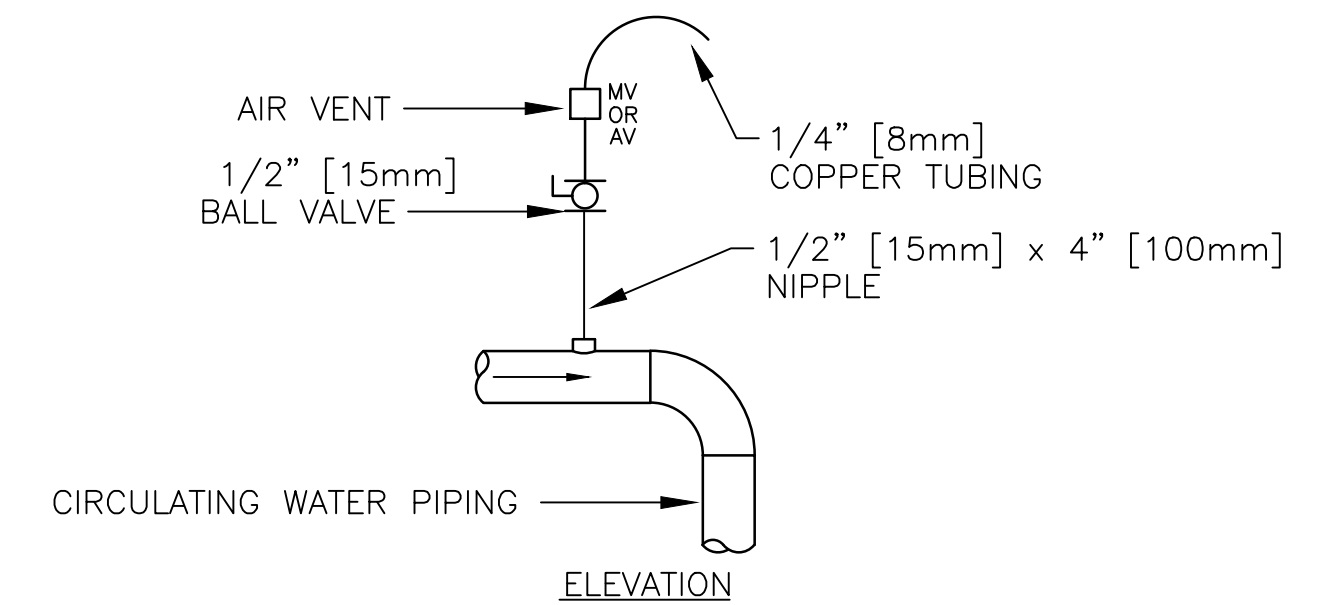


NOTE:

- SEE EXPANSION TANK SYSTEM SCHEDULE FOR COMPONENT SIZES.
- FOR HOT WATER SYSTEMS 2" [50mm] AND SMALLER AND CHILLED WATER SYSTEMS USE IN-LINE AIR PURGER IN LIEU OF AIR SEPARATOR.
- SET PRESSURE REDUCING VALVE SO PRESSURE AT HIGHEST POINT IN SYSTEM HAS A MINIMUM OF 4 PSIG [28kPa].

FLOOR MOUNTED EXPANSION TANK PIPING

NTS



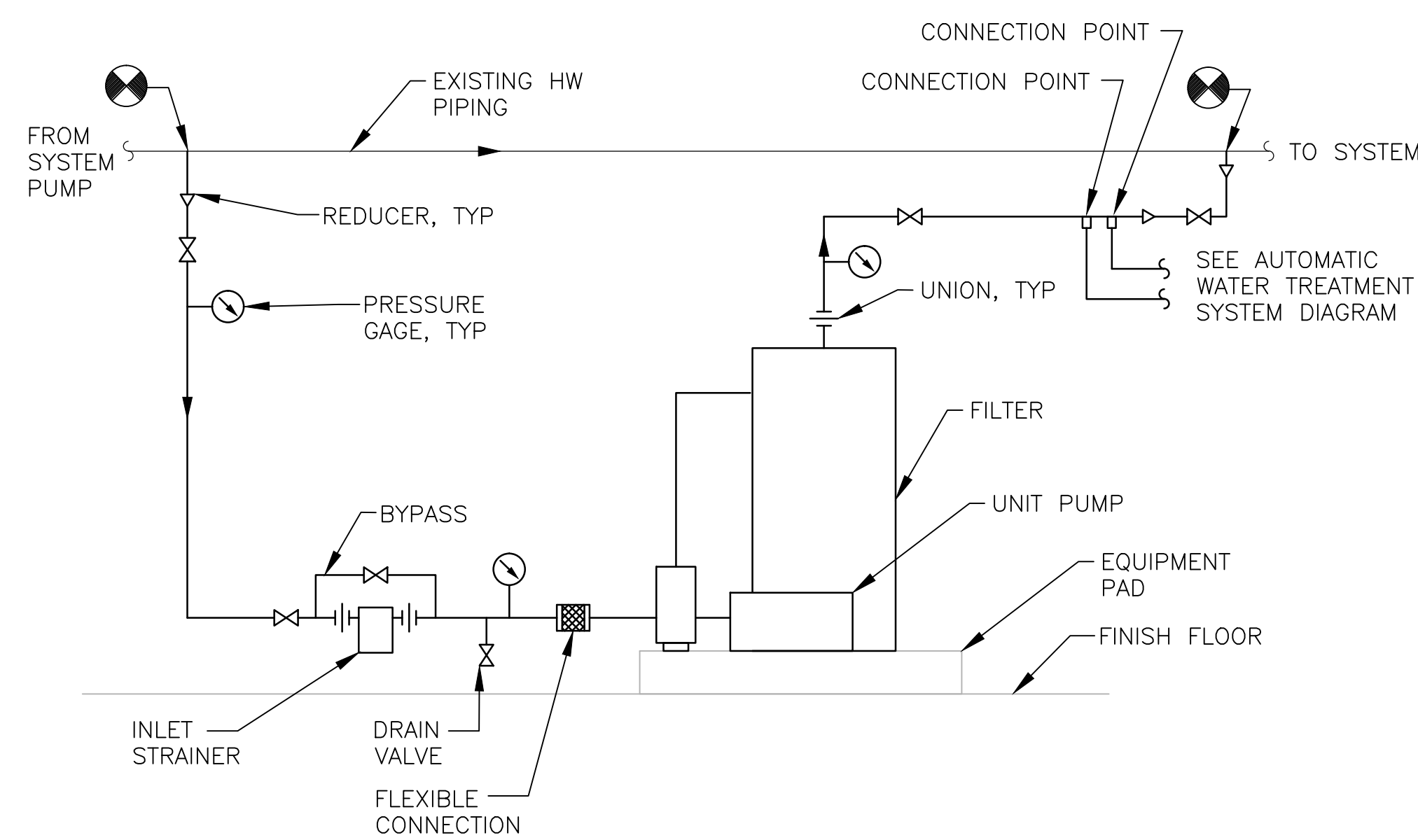
TYPICAL MANUAL AIR VENT

NOTES:

- VENT ALL HIGH POINTS INDICATED ABOVE.
- IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

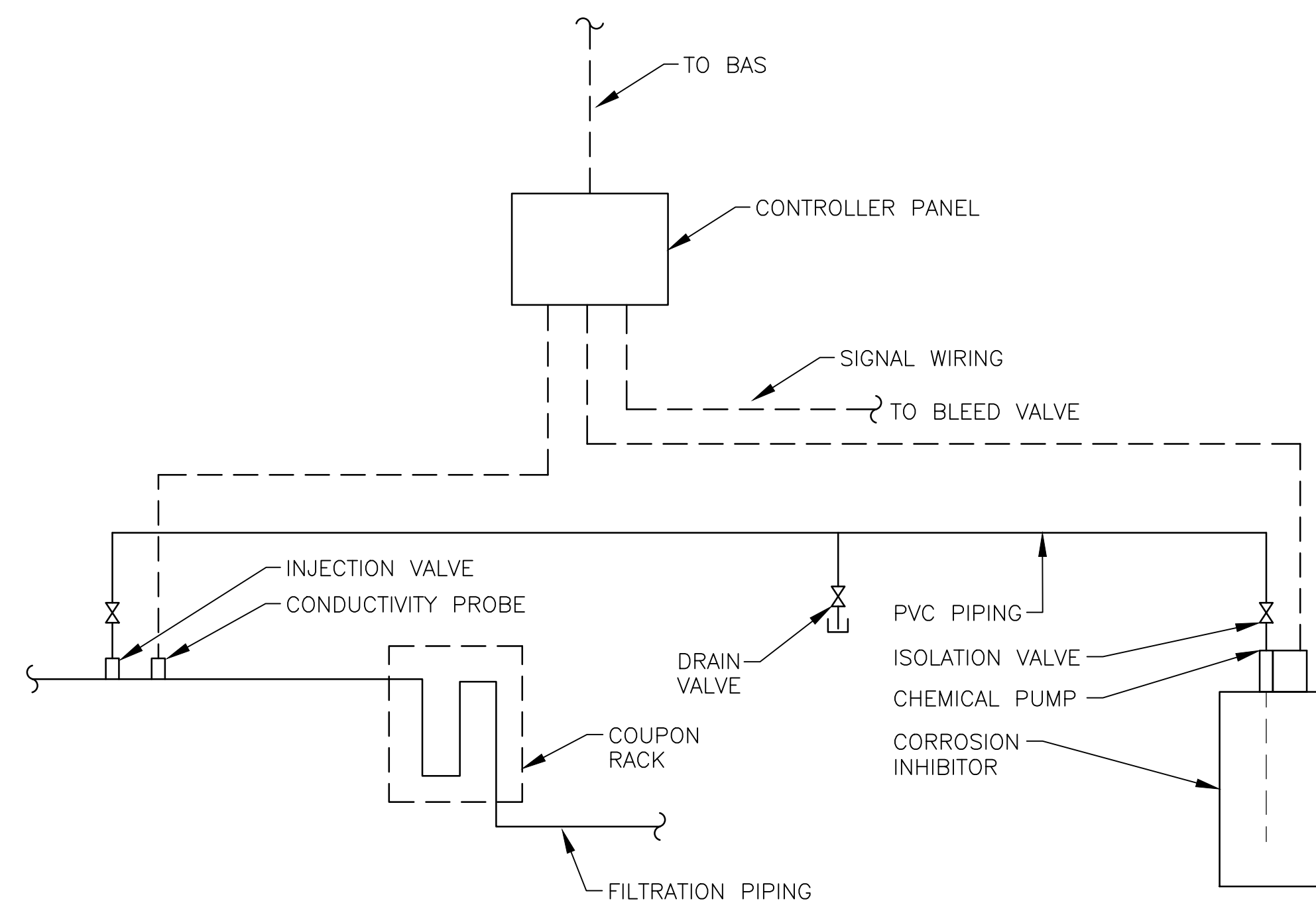
DRAIN VALVE AND AIR VENT PIPING (HYDRONIC SYSTEMS)

NTS



WATER FILTRATION SYSTEM PIPING DIAGRAM

NTS

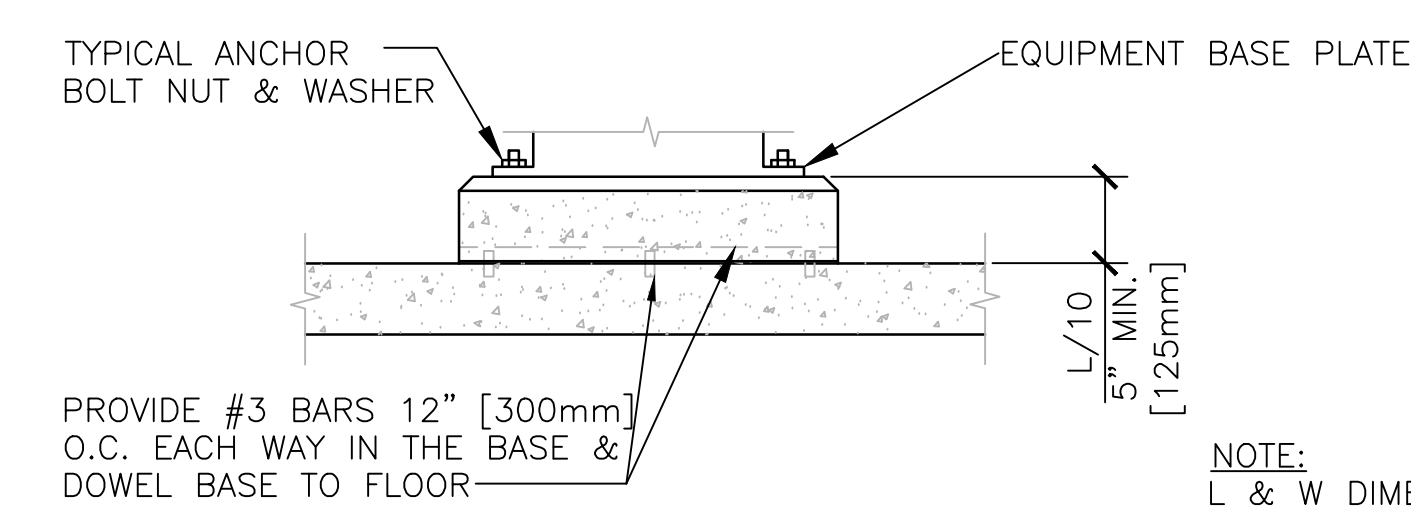
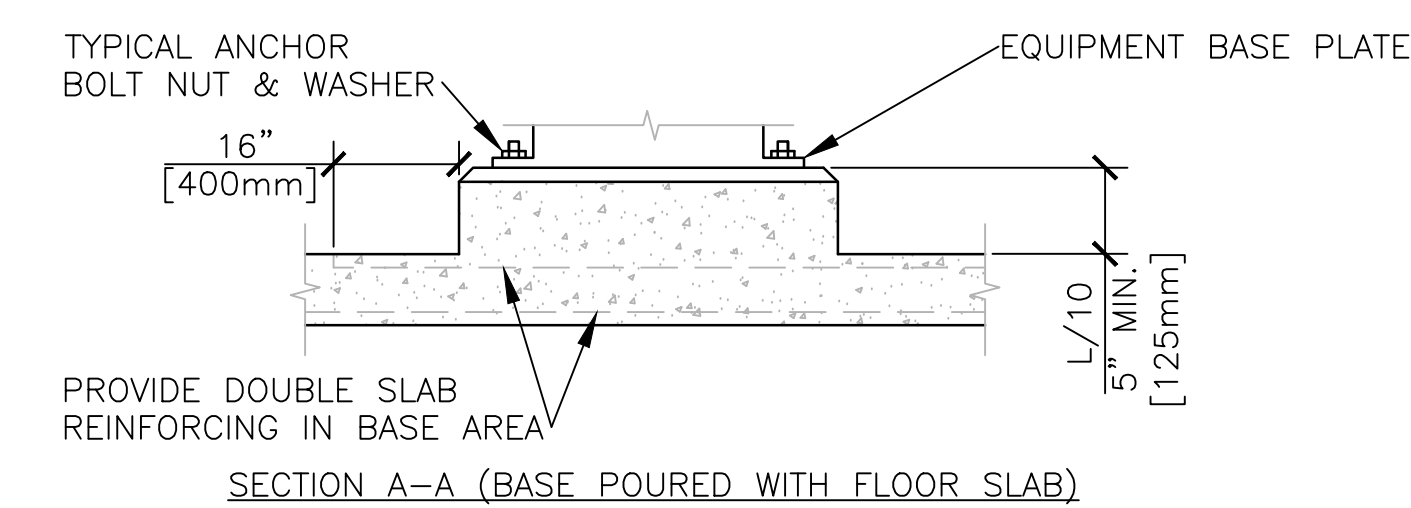
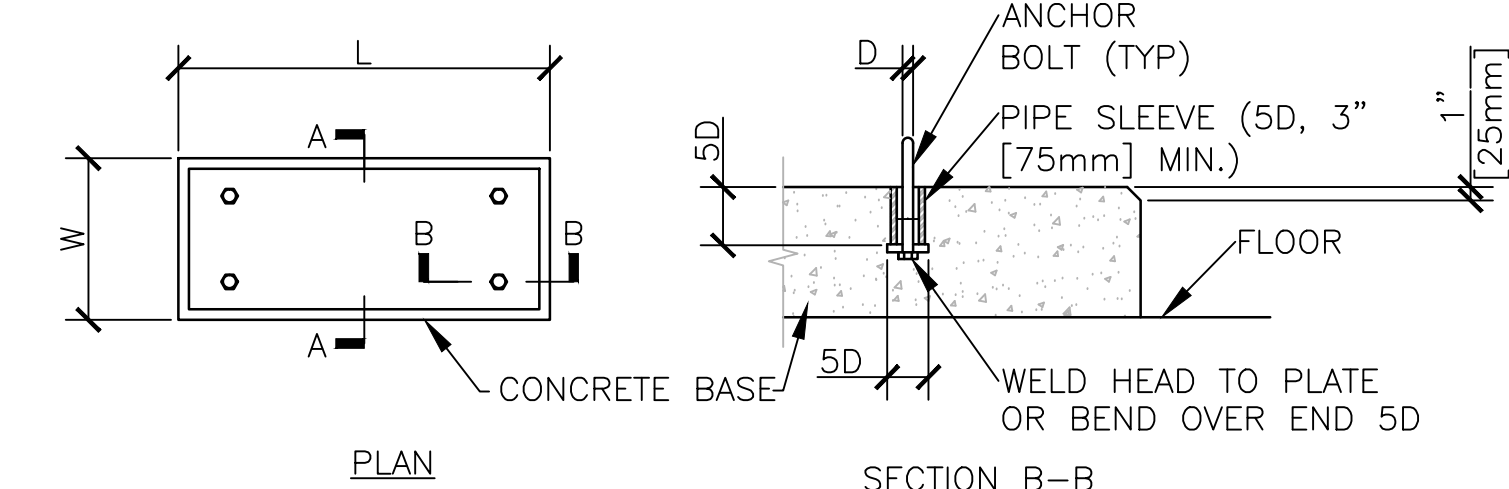


NOTE:

- CONTRACTOR TO HAVE VA FACILITY CHEMICAL TREATMENT VENDOR TO PROVIDE A DETAILED ANALYSIS OF THE SYSTEM AND PROVIDE RECOMMENDATIONS OF THE CHEMICALS TO BE USED.
- CONTRACTOR TO PROVIDE A COMPLETE WATER TREATMENT SYSTEM WITH 1 YEAR WARRANTY.

AUTOMATIC WATER TREATMENT SYSTEM DIAGRAM

NTS







NOTE: L & W DIMENSIONS SHALL BE 6" [150mm] GREATER THAN THE EQUIPMENT BASE PLATE.

SECTION A-A (BASE NOT POURED WITH SLAB)

7 CONCRETE EQUIPMENT BASES

NTS

BID SET

 Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI			KEY PLAN ↑ EXISTING BLDG. 111	CONSULTANTS:  	PROJECT LEADER/ARCHITECT:  ASHLAND, WI • MILWAUKEE, WI 770-460-2004 • 770-460-2004 WWW.CHEQUAMEGON.COM	Drawing Title DETAILS AND DIAGRAMS Approved: Project Director	Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration Location Milwaukee, Wisconsin Date 10/08/15 Checked HFB Drawn EAO	100% SUBMITTAL 10/8/15 Project Number 695-13-122 Building Number 111 Drawing Number M500	Office of Construction and Facilities Management  Department of Veterans Affairs
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ABBREVIATIONS

ADA	AMERICAN WITH DISABILITY ACTS	MC	MECHANICAL CONTRACTOR
AF	AMPERE FRAME	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL
ALT	ALTERNATE	MH	MANHOLE
ATS	AUTOMATIC TRANSFER SWITCH	MIN	MINIMUM
AV	AUDIO VISUAL	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MP	MAIN PANEL
CB	CIRCUIT BREAKER	N/A	NOT APPLICABLE
CLC	COMMUNITY LIVING CENTER	NFD	NON-FUSED DISCONNECT
CLG	CEILING	NFSS	NON-FUSED SAFETY SWITCH
CP	CRITICAL POWER	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NL	NIGHT LIGHT
DWG	DRAWING	NP	NORMAL POWER
EC	ELECTRICAL CONTRACTOR	NT	NOT TO SCALE
EW	ELECTRIC WATER COOLER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
EX	EXISTING	OFOW	OWNER FURNISHED OWNER INSTALLED
FACP	FIRE ALARM CONTROL PANEL	PB	PULL BOX
FCU	FAN COIL UNIT	SPC	PLUMBING CONTRACTOR
G	GAZEBO	PH	PHASE
GC	GENERAL CONTRACTOR	PNL	PANEL
GEN	GENERATOR	POC	POINT OF CONNECTION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PWR	POWER
GFI	GROUND FAULT INTERRUPTER	RE	RESIDENT ENGINEER
GND	GROUND	RCPT	RECEPTACLE
GRC	GALVANIZED RIGID CONDUIT	SDE	SERVICE DISTRIBUTION ENCLOSURE
HH	HANDHOLE	SPEC	SPECIFICATION
HA	HAND OFF AUTOMATIC	TC	TELECOMMUNICATION CLOSET
HP	HORSE POWER	TEL	TELEPHONE
JB	JUNCTION BOX	TS	TAMPER SWITCH
KV	KILOVOLT	TV	TELEVISION
KVA	KILOVOLT-AMPERES	TYP	TYPICAL
KW	KILOWATTS	UH	UNIT HEATER
KWH	KILOWATT HOURS	UNO	UNLESS NOTED OTHERWISE
LAN	LOCAL AREA NETWORK	UPS	UNINTERRUPTED POWER SUPPLY
LS	LIFT STATION	V	VOLTAGE
LTG	LIGHT / LIGHTING	VFD	VARIABLE FREQUENCY DRIVE
LV	LOW VOLTAGE	WP	WEATHERPROOF
LVS	LOW VOLTAGE SYSTEM	XFMR	TRANSFORMER

GENERAL NOTES






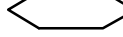

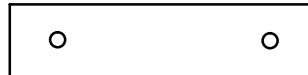






3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON THESE PLANS, UNLESS OTHERWISE NOTED.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, AND ABOVE CEILING. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILING MAY BE EXPOSED ON BUILDING STRUCTURE.
3. ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES AND VA REGULATIONS.
4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTION REQUIREMENTS.
5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DOCUMENTS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THESE PROJECT DOCUMENTS.
7. PROVIDE ALL POWER WIRING INCLUDING ALL CIRCUITRY CARRYING ELECTRICAL ENERGY FROM PANELBOARD OR OTHER SOURCE THROUGH STARTERS AND DISCONNECTS TO MOTORS, PACKAGED EQUIPMENT, OR PACKAGED CONTROL PANELS. PROVIDE ALL WIRING BETWEEN CONTROL PANELS AND MOTORS. INCLUDE STARTERS, DISCONNECTS, AND OVERLOAD PROTECTION IF NOT INCLUDED IN SPECIFICATIONS. COORDINATE WITH EQUIPMENT SUPPLIER.
8. PROVIDE SEPARATE GREEN GROUND FOR EACH MOTOR AND EQUIPMENT CONNECTION ROUTED BACK TO INTEGRAL GROUND BUS OF ASSOCIATED PANELBOARD OR MOTOR CONTROL CENTER. GROUND CONDUCTOR SIZES PER NEC ARTICLE 250.122.
9. THIS CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS INCLUDING VOLTAGE, HORSEPOWER, STARTER TYPE, AND DISCONNECTING MEANS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS, DISCONNECT SWITCHES, AND STARTERS.
11. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DOCUMENTS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUALITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.
11. CONTRACTOR IS TO FIRE STOP AND SEAL ALL WALL PENETRATIONS AT THE END OF EACH WORK SHIFT. IF FIRE STOPPING CANNOT BE PERFORMED AT THE END OF WORK SHIFT THE HOLE NEEDS TO BE STUFFED WITH MINERAL WOOL INSULATION, TAGGED WITH AN ORANGE IL5M TAG INDICATING PROJECT NAME, PRIME CONTRACTOR, NAME AND PHONE NUMBER.
12. CONTRACTOR PERFORMING CORING, DATE HOLE IS MADE, AND DATE HOLE WILL BE FIRE STOPPED (MAXIMUM 30 DAYS LATTER)
13. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULED AS PER SPEC SECTION 010110 SN-SPECIAL NOTES.
14. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
15. HOT WORK – SEE SPECIFICATION SECTIONS 01 01 10 SN – SPECIAL NOTES AND 01 35 26 – SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
16. WORK HOURS:

DAYTIME – NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.

8PM-6AM – WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.

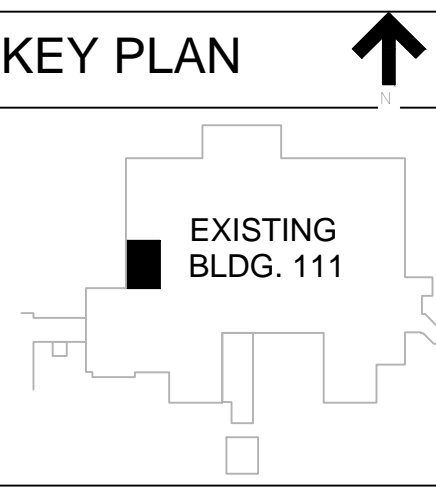
WEEKENDS – WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

SHEET SYMBOLS

	DETAILS AND SECTIONS DESIGNATION
	REVISION NUMBER DESIGNATION
	NOTE DESIGNATION
	MOTOR DESIGNATION
	DISCONNECT SWITCH
	EQUIPMENT TAG
	LIGHT SWITCH
	SUSPENDED LIGHTING FIXTURE
	SPECIAL OUTLET, SEE EQUIPMENT SCHEDULE
	DETECTOR: LETTER INDICATES AS FOLLOWS BLANK = SMOKE DETECTOR H = HEAT DETECTOR
	FIRE ALARM SPEAKER/STROBE, CANDELAS AS INDICATED
	DOOR CARD READER
	PANELBOARD
	JUNCTION BOX

[illegible]

Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI



CONSULTANTS:



PROJECT LEADER/ARCHITECT



LEGEND, ABBREVIATIONS,
SYMBOLS, AND ABBREVIATIONS

Approved: Project Director

Project Title	Building 111 - Repair Expansion Tank & HVAC Piping
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Phase 1 - Expansion Tanks & Filtration

Location	Number of birds	Number of eggs	Number of chicks
1. 1000 ft. above water	10	10	10
2. 500 ft. above water	10	10	10
3. 250 ft. above water	10	10	10
4. 100 ft. above water	10	10	10
5. 50 ft. above water	10	10	10
6. 25 ft. above water	10	10	10
7. 10 ft. above water	10	10	10
8. On water	10	10	10
9. In nest	10	10	10
10. In nest	10	10	10
11. In nest	10	10	10
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91. In nest	10	10	10
92. In nest	10	10	10
93. In nest	10	10	10
94. In nest	10	10	10
95. In nest	10	10	10
96. In nest	10		

Milwaukee, Wisconsin

Date	Checked	
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100% SUBMITTAL 10/8/15

Project Number	
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Building Number
111

Drawing Number

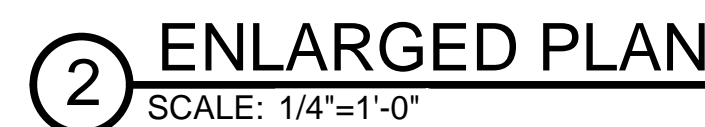
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FOO


Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

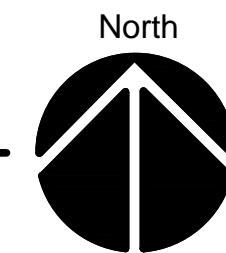
BID SET



- ① DISCONNECT EXISTING AC TECH INTELLIGENT DRIVE AND SWITCH FOR RELOCATION. PREPARE CONDUCTORS FOR REUSE AND PROVIDE JUNCTION BOX FOR EXTENSION OF FEEDER. COORDINATE POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE.
- ② REMOVE AND TURN OVER EXISTING CAMERA TO VA. REMOVE CONDUIT TO THE NEAREST JUNCTION BOX AND REMOVE CABLE IN ITS ENTIRETY BACK TO SOURCE.
- ③ REMOVE EXISTING TIME LIGHT SWITCH. SWITCH SHALL BE REPLACED WITH NON-AUTOMATIC TOGGLE SWITCH. PREPARE CONDUCTORS FOR REPLACE SWITCH. COORDINATE LIGHTING POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE.
- ④ DISCONNECT RACEWAY AND CONDUCTORS FOR P-40. COORDINATE POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE. REMOVE CONDUIT AND CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE.

100% SUBMITTAL 10/8/15	
Project Number 695-13-122	Office of Construction and Facilities Management
Building Number 111	
Drawing Number ED100	
 Department of Veterans Affairs	

BID SET



KEY PLAN

 NORTH

VA FORM 08-6231

A

B

C

D

E

F

A

B

C

D

E

F

LUMINAIRE SCHEDULE										
ID	DESCRIPTION	LAMPS			BALLAST TYPE	VOLTS	MOUNT TYPE	LUMINAIRE		NOTES
		NO.	TYPE	WATTS				MFGR	MODEL	
A	4FT INDUSTRIAL STRIP, 5% UPLIGHT - CHAIN HUNG WITH WITH WIRE GUARD	2	FLUORESCENT	32	EL	UNIV	SUSPENDED	LITHONIA	EJA	1 COPPER, PHILLIPS

OPTIONS / ACCESSORIES CODE LISTING:

1. FURNISH WITH WIRE GUARD AND CHAIN MOUNTED ACCESSORIES

NOTES

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED AS ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

2. FIELD COORDINATE EXACT HEIGHT AND LOCATION OF LIGHT FIXTURES TO AVOID CONFLICTS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPES, AND STRUCTURAL MEMBERS, FIXTURE SHALL BE CHAIN HUNG AND SUPPORTED FROM THE EXPOSED STRUCTURE.

EQUIPMENT SCHEDULE																							
TAG	SERVING	LOCATION	VOLT/PH	HP	FLA	KW	VA	FED FROM			OCPD			BRANCH WIRING				DISCONNECT SWITCH					SEE NOTE
								PANEL	CKT	BRNCH	TYPE	SIZE	POLE	NO	SIZE	GND	COND	FURN BY	INST BY	WIRE BY	LOC	OPTIONS	
SSF-1	MTHW	MER 2	480/3	10	14			EPH-Q-B06-2	8,10,12	EQ	CB	25	3	3	10	10	3/4	MFR	MFR	MFR	IU		
SSF-2	LTHW	MER 7	480/3	5				EPH-Q-110-4	19,21,23	EQ	CB	15	3	3	12	12	3/4	MFR	MFR	MFR	IU		

PANEL NAME: EXISTING EPH-Q-B06-2					PANEL LOCATION: MER2				
FED FROM: EPH-Q-B06-1					BRANCH: EQUIPMENT				
MAIN TYPE: CIRCUIT BREAKER					VOLTAGE: 277/480Y 3PH/4W				
PANEL BUS AMPS: 100					AIC RATING:				
PANEL LOAD (kVA): x					PANEL LOAD (AMPS): x				
CIRCUIT #	AMP	POLES	OPTIONS & ACC.	NAME, DESCRIPTION AND REMARKS	CIRCUIT #	AMP	POLES	OPTIONS & ACC.	NAME, DESCRIPTION AND REMARKS
1	20	3		P-23 CONDENSATE (EXISTING)	2	20	3		SPARE (EXISTING)
3					4				
5					6				
7	20	3		P-24 CONDENSATE (EXISTING)	8	25	3		SSF-1
9					10				
11					12				
13				SPACE	14				SPACE
15				SPACE	16				SPACE
17				SPACE	18				SPACE
19				SPACE	20				SPACE
21				SPACE	22				SPACE
23				SPACE	24				SPACE
25				SPACE	26				SPACE
27				SPACE	28				SPACE
29				SPACE	30				SPACE
31				SPACE	32				SPACE
33				SPACE	34				SPACE
35				SPACE	36				SPACE
37				SPACE	38				SPACE
39				SPACE	40				SPACE
41				SPACE	42				SPACE
PANEL NOTES: 1. CAPACITY OF BREAKERS IS LESS THAN CAPACITY OF PANEL									

SPECIAL PURPOSE OUTLET SCHEDULE

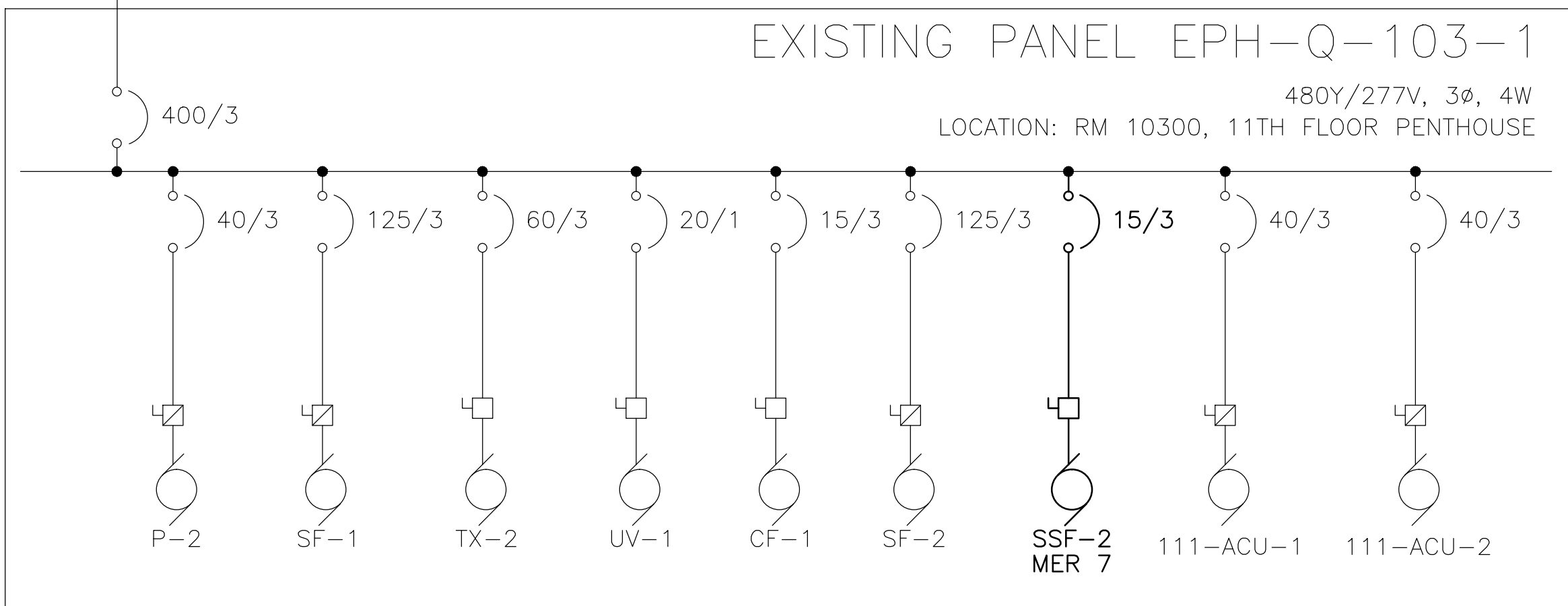
NO.	SERVING	LOCATION	VOLTS	ø	LOAD (WATTS)	FED FROM		OCPD		BRANCH WIRING				CONNECTION REQUIREMENT		
						PANEL	CIRCUIT	POLE	SIZE	NO.	SIZE	COND	GND	O/A	PLUG	NOTE
1	AUTOMATIC WATER TREATMENT CONTROL PANEL	MER2 (BASMENT)	120	1	1,500	MP1	50	1	15A	2	#12	3/4"	#12	1	5-15P	-

ABBREVIATIONS

O/A = OPTIONS/ACCESSORIES
OCPD = OVERCURRENT PROTECTIVE DEVICE

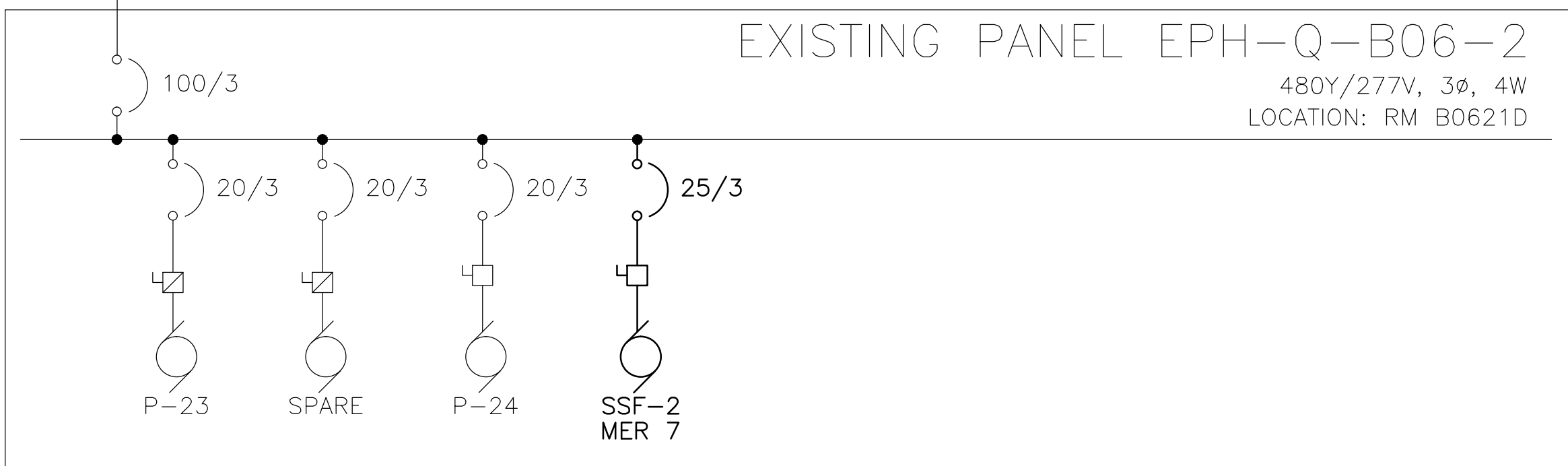
OPTIONS / ACCESSORIES

1. DUPLEX RECEPTACLE



NOTES:
1.REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

1 POWER DISTRIBUTION ONE-LINE
SCALE: NONE



NOTES:
1.REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2 POWER DISTRIBUTION ONE-LINE
SCALE: NONE

BID SET

		 <div>Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI</div>		KEY PLAN ↑ 	CONSULTANTS:   <small>Single Source. Sound Solutions. GROUP</small>	PROJECT LEADER/ARCHITECT:  <small>Chequamegon ARCHITECT GROUP, INC. ASHLAND, WI • MILWAUKEE, WI TEL: 414.386.4100 FAX: 414.386.4101 WWW.CHEQBAYGRP.COM</small>	Drawing Title SCHEDULES AND ONE LINE DIAGRAMS	Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration	100% SUBMITTAL 10/8/15		Office of Construction and Facilities Management 
Revisions:							Approved: Project Director	Location Milwaukee, Wisconsin	Project Number 695-13-122 Building Number 111	Drawing Number E400	
							Date 10/08/15	Checked DMW	Drawn TM		